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REMEDIAL INVESTIGATION REPORT FOR OPERABLE UNIT 1

**Pfizer Inc Site B and Site D
Williamsburg
Brooklyn, New York**

Prepared for:

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1.0 INTRODUCTION

On behalf of Pfizer Inc (Pfizer), Roux Associates, Inc. (Roux Associates) and Remedial Engineering, P.C. (Remedial Engineering) have prepared this Remedial Investigation Report (RIR) for Operable Unit 1 (OU-1) of Site B and Site D. The RI was performed in accordance with the following New York State Department of Environmental Conservation (NYSDEC) approved work plans:

- “Remedial Investigation Work Plan for Operable Unit 1” (RIWP) dated January 17, 2012;
- “Supplemental Remedial Investigation Work Plan” (SRIWP) dated January 30, 2013; and
- “Supplemental Soil Vapor Investigation Work Plan” (SSVIWP) dated June 25, 2013.

Site B and Site D are in the NYSDEC Volunteer Cleanup Program (VCP), Index Agreement No. D2-0010-0703, Site No. V00350.

1.1 Purpose and Objectives

This RIR presents the findings of the 2012 and 2013 RI approved work plan activities. The RI objectives are to delineate environmental impacts at Site D, and to refine the vertical and horizontal extents of source areas of chlorinated volatile organic compounds (CVOCs) at Site D and, if any exist, at Site B. Based on the findings of previous Site B and Site D investigations, the contaminants of concern are the following four CVOCs: tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), and vinyl chloride (VC). Other CVOCs that have been detected in soil, groundwater, and/or soil vapor (e.g., trans-1,2-dichloroethene) are at significantly lower levels, by comparison, and mostly meet applicable standards.

Prior to this RI, multiple remedial investigations were performed on Site B between 1996 and 2011. The investigations consisted of soil, groundwater, and soil vapor sampling on Site B and the adjacent sidewalk areas. Remedial measures consisted of Interim Remedial Measure (IRM) activities conducted in 2002 to remove nine underground storage tanks (USTs), two tank-like structures, 4,735 tons of impacted soils, and 18,449 gallons of groundwater; and subsequent installation and operation of a soil vapor extraction/air sparge (SVE/AS) treatment system from October 2006 to February 2011. In addition, groundwater was sampled quarterly between

September 2006 and September 2012, and semi-annually between September 2012 and March 2013. These efforts showed successful remediation of petroleum impacts on Site B, but CVOC impacts remained. A preliminary investigation of Site D, which is upgradient of Site B, was performed in 2010 and CVOC impacts were discovered, resulting in a formal remedial investigation of Site D as part of OU-1 under the RIWP, SRIWP, and the SSVIWP.

1.2 Site Locations and Descriptions

Site B and Site D are both located in Williamsburg, Brooklyn, New York, as shown in Figure 1. Site D, also known as the former Arlington Press, Inc. (Arlington Press) facility, is located south and across the street from Site B. According to the most recent zoning map, effective October 11, 2012, Site B and Site D are both designated as General Residence District (R7A). Moreover, the western 100 feet of Site B and the western 100 feet of Site D (i.e., the portion of the property adjacent to Harrison Avenue) are designated as Commercial District Overlay (C2-4).

There are two OUs associated with Site B and Site D (Plate 1). OU-1 consists of the eastern portion of Site B and the entirety of Site D. OU-2 consists of the western portion of Site B.

Additional details regarding the locations and descriptions of Site B and Site D are provided in subsequent sections.

1.2.1 Site B

Site B is known by the street addresses of 59-71 Gerry Street and 73-87 Gerry Street, and is located between Harrison and Throop Avenues. Site B is identified as Block 2266, Lots 46, 48, 50, 52, and part of Lot 1 in the Kings County Tax Map. YGS Inc. (a/k/a Congregation YGS) owns the western portion of Site B (i.e., OU-2), which was formerly leased by Pfizer. Oholie Shloma bought the eastern portion of Site B from Pfizer in June 2012. The western portion of Site B is situated on approximately 0.34 acres, and the eastern portion of Site B is situated on approximately 0.46 acres. Site B is bordered on the north by a poultry market and vacant land, three multi-family residences, and a former auto body garage and yard; on the south by Gerry Street; on the east by a vacant lot; and on the west by Harrison Avenue (Plate 1). A five-story, private high school for girls is under construction on the western portion of Site B. The eastern portion of Site B is vacant.

YGS Inc. retained Langan Engineering & Environmental Services, P.C. (Langan) to perform remedial investigation at OU-2. The RI findings are documented in the June 2011 *Remedial Investigation Report* prepared by Langan. Langan then prepared the *Remedial Action Work Plan* dated August 22, 2011, which the NYSDEC approved on August 23, 2011.

1.2.2 Site D

Site D is known by the street addresses of 191 Harrison Avenue and 60-66 Gerry Street, is located between Gerry and Bartlett Streets, and shares its western property boundary with Harrison Avenue. Site D is identified as Block 2269, Lot 1 in the Kings County Tax Map, and is situated on approximately 0.68 acres. Pfizer owns Site D. Arlington Press, a company that specialized in labels and package inserts for the pharmaceutical industry, had leased the five interconnected buildings that comprise Site D from 1987 to the end of 2007. No other entity has occupied the vacated buildings since then. The buildings surround three sides of a five-story condemned apartment building that abuts Site D to the south, and fronts on Bartlett Street. Site D is bounded on the West by Harrison Avenue, on the East by a vacant lot, on the North by Gerry Street, and on the South by Bartlett Street (Plate 1). Pfizer does not own, and has never owned, the condemned apartment building or the adjacent vacant lot.

1.3 Report Organization

The remainder of this Site B and Site D OU-1 RIR is organized as follows:

- Section 2.0 describes the environmental setting (i.e., topography, regional and site geology and hydrogeology, and the quality of groundwater, soil, and soil vapor) of Site B and Site D;
- Section 3.0 provides the RI methodologies that were implemented;
- Section 4.0 discusses the RI findings;
- Section 5.0 presents a conceptual site model (CSM); and
- Section 6.0 summarizes the conclusions and recommendations generated from the performance of the RI.

2.0 OPERATING HISTORY AND ENVIRONMENTAL SETTING

This section summarizes the operating history, and describes the topography and regional and site-specific geology and hydrogeology of Site B and Site D. The environmental information is based on regional geologic and hydrogeologic data published by the United States Geological Survey and observed site-specific lithology and water-level elevation data.

Also provided is a summary of OU-1 environmental conditions prior to the performance of the RI based on available information. Site B data are from the following reports:

- “Results of the Supplemental Investigation” dated July 8, 1997;
- “Interim Remedial Measure and Limited Site Investigation Results Report and Supplemental Site Investigation Work Plan” dated June 9, 2003;
- “Supplemental Site Investigation Summary Report” dated June 8, 2005;
- “Focused Investigation and Additional Remedy Evaluation Report for MW-3 and MW-7 Areas” dated September 8, 2009;
- “Expanded Delineation Investigation Work Plan” dated March 26, 2010; and
- “Groundwater Remediation Progress Report No. 34” dated June 10, 2013.

Site D data are from work performed as part of the 2006 Facility-Wide Subsurface Investigation throughout all of the Pfizer-owned blocks that comprise the Williamsburg facility, and supplemental investigation activities conducted in early 2007 and October 2007. The data were presented in the RIWP.

2.1 Operating History

This section reviews historic operations at Site B and Site D. Both were part of Pfizer’s Brooklyn facility, which began on or about 1849.

2.1.1 Site B

By 1887, the eastern portion of Site B was improved with contiguous two and three-story residential buildings, and a three-story building located in the central portion of Site B (i.e., 77/79 Gerry Street) that was occupied by a fur factory and otherwise used for residential purposes. By 1904, the fur factory building was used for storage purposes and occupied by a

potential coffee roaster based on the small size of the shop. The building adjacent to the south (i.e., 75 Gerry Street) was used as a carriage repository and otherwise residential.

In 1918, the carriage repository was no longer present and a wholesale grocer operated in the same building as the roaster. By 1935, the buildings with a street address ranging from 73 to 79 Gerry Street, including residential buildings and the aforementioned roaster and wholesale grocer building, were demolished and replaced by a one-story 75-car garage. A 550-gallon gasoline UST was present in the southeastern corner of the garage. This UST was removed during the performance of the 2002 IRM activities.

The remaining residential buildings that had been present at 81 through 85 Gerry Street were demolished by 1947, replaced with a one-story truck renting facility. Site B remained unchanged through 1950.

Pfizer took ownership of the eastern portion of Site B on April 2, 1964, which consisted of a vacant building that was not utilized by Pfizer until the 1970s (where the aforementioned former garage and truck renting facility were owned and operated by previous Site B owners). Pfizer utilized the building, which covered the majority of the eastern portion of Site B, as a warehouse for the storage of raw materials/dry goods, spare equipment parts, and packaging materials. Additionally, a basement was present that contained a boiler and a 1,000-gallon capacity No. 2 fuel oil vaulted storage tank, which was not used by Pfizer (i.e., the tank was not active). The use of the building as a warehouse continued until the late 1980s, when Pfizer leased the building to Arlington Press for employee parking. By March 1, 1996, Pfizer had the building demolished and the abovementioned 1,000-gallon fuel oil tank and associated boiler removed. The eastern portion of Site B returned to use as Arlington Press employee parking until Arlington Press closed near the end of 2007. Since then, the eastern portion of Site B has been vacant except for a treatment system equipment container that was removed in April 2013.

2.1.2 Site D

In 1887, Site D was partly developed with rows of one to three-story dwellings and ground-level stores that included a wheelwright, soft soap facility, fur-dressing store, and an event hall with the name Teutonia Hall. The existing offsite five-story apartment building was constructed in

1904, at which time a tailor shop was also present onsite. The Pfizer-owned buildings on Site D completely surround three sides of this offsite abandoned apartment building.

A National Guard of the State of New York Armory replaced Teutonia Hall by 1918. A carriage repository and small soda water facility were also present onsite.

By 1935, the existing one and two-story buildings had replaced the armory, dwellings, and stores in its footprint. Three gasoline USTs were maintained at that time in the interior of that building, along Harrison Avenue.

Pfizer occupied Site D as early as 1947. Site D was divided into multiple lots at that time, and Pfizer did not own the entirety until the building on 66 Gerry Street (later designated as Building 25A) was purchased in 1965. (The multiple parcels were later merged to form Lot 1.) Site D was known back then as Warehouse “F” and used for storage purposes and general maintenance work supporting the Pfizer Brooklyn facility. Paints were also stored at ground level of the maintenance department of Arlington Press (central Gerry Street one-story building), together with lumber. The previous shops no longer operated onsite and the aforementioned gasoline USTs were no longer present. Pfizer activities (circa 1965 as it relates to the current building layout) included welding at the location of the existing courtyard and metal working within the existing one and two-story building. Pfizer housed its engineering and maintenance departments in this building that supported all Brooklyn-based Pfizer manufacturing operations at that time. Arlington Press leased this facility from Pfizer from January 1987 to the end of 2007. Site D has been vacant since 2008.

2.2 Topography

Site B and Site D are essentially level at an elevation of 15± feet above mean sea level.

2.3 Geology

The following sections summarize regional and local geology.

2.3.1 Regional Geology

Site B and Site D are located within the Atlantic Coastal Plain Physiographic Province. The regional subsurface geology consists of unconsolidated sand, silt, clay, and gravel deposits that overlie crystalline bedrock. The unconsolidated strata gently dip to the southeast, following the topography of the bedrock surface.

2.3.2 Site Geology

During previous investigations of Site B and Site D, four distinct geologic strata were encountered from land surface to a depth of approximately 35 feet below land surface (ft bls). Lithological information obtained during the RI support previous geological interpretations and has been incorporated, as appropriate, into the Site cross sections shown on Plate 2. The observed lithology is as follows:

- A brown sand stratum (i.e., fill material) throughout Site B and Site D with an approximate thickness of 8 to 10 feet. The fill material is characterized as predominately fine to coarse sand, some concrete, brick, and slag fragments, trace to some gravel, and trace clay.
- A green clay/silt/sand stratum that underlies the aforementioned fill material at Site B and Site D with an approximate thickness of two to three feet.
- A brown fine to medium sand stratum with minor amounts of silt and gravel that underlies the clay/silt and sand/silt layers (where present). This stratum was identified throughout Site B and Site D with an average approximate thickness of 10 to 15 feet.
- A minimum 10 feet thick gray silt/clay stratum that underlies the above sand stratum throughout Site B and Site D.

There are two other site-specific features in addition to the above. As a result of past development activities at Site B and Site D, most of the surface of Site D and portions of Site B are covered by concrete that is approximately one to two feet thick. A layer of clean backfill from near surface to approximately 10 to 12 ft bls is present within the central area of the eastern portion of Site B, where IRM activities (i.e., excavation) were conducted in 2002 to remove source areas.

2.4 Hydrogeology

The following sections summarize regional and local hydrogeology.

2.4.1 Regional Hydrogeology

Groundwater in the area occurs under water-table (unconfined) conditions in the Upper Glacial Aquifer. Regional groundwater flow in the area is generally to the north, eventually discharging to the East River. Underlying the Upper Glacial Aquifer is the Jameco Aquifer.

2.4.2 Site Hydrogeology

During previous investigations, the estimated groundwater flow direction was determined to be northeast in Site D and the eastern portion of Site B. The estimated overall northerly direction of the groundwater flow is consistent with the regional groundwater flow direction. Groundwater flow direction in the western portion of Site B is influenced by continuous dewatering operations conducted by the Metropolitan Transit Authority for the G subway line along Union Avenue, evidenced by flow toward west-northwest from Gerry Street toward Wallabout Street.

Perched water was identified on top of the upper clay/silt and sand/silt stratum at Site D (most of this stratum at Site B was removed as part of the IRM activities). The direction of flow of the perched water is not known, but the general direction of flow of the perched water underneath offsite Pfizer-owned properties is west-northwesterly and, hence, hydraulically disconnected from flow in the Upper Glacial Aquifer due to the semi-confining silt and clay layer.

2.5 OU-1 Environmental Conditions

The following is a general summary of soil, groundwater, and soil vapor quality prior to the performance of the RI. VOC discussions will focus on the CVOCs of concern.

2.5.1 Soil Quality

Data discussed in this section include those from Site B investigations performed in March 2004, April through May 2009, and August 2010, and Site D investigations performed in November 2006 and October 2007.

2.5.1.1 VOCs

Low levels of PCE, TCE, and cis-1,2-DCE are present in Site B soils, but none exceed their respective Protection of Groundwater Criteria in Title 6 of the New York Code of Rule and Regulations (6 NYCRR) Part 375 (Part 375) dated December 14, 2006.

CVOCs of concern are also present in Site D soils, but exceedances of the Part 375 Protection of Groundwater Criteria were detected only at GW-S26 and GW-S27. Additional details are provided below.

PCE

Exceedance was detected at GW-S27 from 9 to 11 ft bls, at 2.2 milligrams per kilogram (mg/kg).

TCE

Exceedance was detected at GW-S27 from 9 to 11 ft bls, at 2.7 mg/kg.

Cis-1,2-DCE

Exceedances were detected at GW-S26 from 19 to 21 ft bls, and at GW-S27 from 9 to 11 ft bls and from 15 to 17 ft bls. The concentrations ranged from 0.29 to 120 mg/kg. The highest concentration was at GW-S27 from 9 to 11 ft bls.

VC

Exceedances were detected at GW-S26 from 19 to 21 ft bls, and at GW-S27 from 9 to 11 ft bls. The concentrations were 0.05 and 1.2 mg/kg, respectively.

2.5.1.2 SVOCs

Low levels of SVOCs are present in Site B and Site D soils. Concentrations of benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene, and pyrene exceed their respective Part 375 Restricted Residential Use Criteria. The types and concentrations of SVOCs detected are consistent with historic fill in urban environments (i.e., Brooklyn, New York) and not due to a release.

2.5.1.3 Metals, Cyanide, PCBs, Pesticides, and Herbicides

Metals are present in Site B and Site D soils. Concentrations of arsenic, barium, copper, lead, and mercury exceed their respective Part 375 Restricted Residential Use Criteria. The types and concentrations of metals detected are consistent with historic fill in urban environments (i.e., Brooklyn, New York) and not due to a release.

Only Site D soils were analyzed for cyanide and polychlorinated biphenyls (PCBs). There were no exceedances of the Part 375 Restricted Residential Use Criteria.

Site B and Site D soil samples were not analyzed for pesticides and herbicides prior to the performance of the RI.

2.5.2 Groundwater Quality

Extensive data exist for Site B monitoring wells, including from quarterly sampling conducted between September 2006 and September 2012, and from semi-annual sampling conducted between September 2012 and March 2013. For Site D, the five (5) monitoring wells installed prior to the performance of the RI were sampled either once (AP-4, AP-5, and AP-6) or four (4) times (BMW-7 and BMW-7S) between November 2006 and October 2007. There are also data from discrete groundwater samples collected from the sidewalk of Gerry Street.

It should be noted that a SVE/AS treatment system was operated on the eastern portion of Site B from October 2006 to February 2011. The SVE/AS treatment system addressed dissolved petroleum related compounds and CVOCs. By April 2013, when the SVE/AS treatment system was decommissioned, the petroleum related compounds had been completely remediated, and significant decreases in CVOC concentrations were observed in monitoring wells within the treatment zone: MW-5, MW-6R, and MW-17. CVOC concentrations in monitoring well MW-7 did not mitigate to the same extent, however.

2.5.2.1 VOCs

Site B monitoring well data from February 2011 onwards (i.e., after the SVE/AS treatment system was shut down permanently), Site D monitoring well data, and data from discrete groundwater samples collected from the sidewalk of Gerry Street and underneath Building 25A, are discussed in this section.

PCE

Between June 2011 and March 2013, exceedances of the NYSDEC Ambient Water Quality Standards and Guidance Value (AWQSGV) were detected in Site B monitoring wells MW-3, MW-7, MW-8, and MW-16. The concentrations ranged from 5.1 to 59 micrograms per liter

(µg/L). The highest concentration was detected in monitoring well MW-3 during the June 2011 sampling event.

Exceedances were detected in Site D monitoring wells AP-4 and once in monitoring well BMW-7. The concentrations were 12 and 5.4 µg/L, respectively.

Exceedances on the sidewalk of Gerry Street and underneath Building 25A were detected at GW-S12, GW-S13, GW-S18, GW-S20, GW-S21, GW-S26, and GW-S27. The concentrations ranged from 20 to 4,500 µg/L. The highest concentration was at GW-S27 from 10 to 15 ft bls.

TCE

Between June 2011 and March 2013, exceedances were detected in Site B monitoring wells MW-3, MW-7, MW-8, MW-12, and MW-19. The concentrations ranged from 6.1 to 79.5 µg/L. The highest concentration was detected in monitoring well MW-3 during the March 2013 sampling event.

There were no exceedances detected in Site D monitoring wells.

Exceedances on the sidewalk of Gerry Street and underneath Building 25A were detected at GW-S12, GW-S13, GW-S18, GW-S19, GW-S20, GW-S21, GW-S26, and GW-S27. The concentrations ranged from 6.4 to 1,300 µg/L. The highest concentration was at GW-S27 from 10 to 15 ft bls.

Cis-1,2-DCE

Between June 2011 and March 2013, exceedances were detected in Site B monitoring wells MW-3, MW-7, MW-6R, MW-8, MW-10, MW-12, MW-14, MW-15, MW-16, MW-18, MW-19, and MW-20. The concentrations ranged from 7.5 to 1,800 µg/L. The highest concentration was detected in monitoring well MW-20 during the February 2012 sampling event.

Exceedances were detected in Site D monitoring well AP-4, twice in monitoring well BMW-7, and once in monitoring well BMW-7S. The concentrations ranged from 6.7 to 12 µg/L.

Exceedances on the sidewalk of Gerry Street and underneath Building 25A were detected at GW-S12, GW-S13, GW-S18, GW-S19, GW-S20, GW-S21, GW-S22, GW-S26, GW-S27, GW-S28, and GW-S29. The concentrations ranged from 6.8 to 110,000 µg/L. The highest concentration was at GW-S27 from 10 to 15 ft bls.

There was also a minor exceedance of 7.2 µg/L at GW-S30 from 25 to 30 ft bls, located in Building 24 of Site D.

VC

Between June 2011 and March 2013, exceedances were detected in Site B monitoring wells MW-6R, MW-7, MW-8, MW-10, MW-12, MW-16, MW-18, MW-19, and MW-20. The concentrations ranged from 2.2 to 620 µg/L. The highest concentration was detected in monitoring well MW-20 during the February 2012 sampling event.

Exceedances were detected in all four (4) samples collected from Site D monitoring well BMW-7. The concentrations ranged from 2.3 to 18 µg/L.

Exceedances on the sidewalk of Gerry Street and underneath Building 25A were detected at GW-S12, GW-S13, GW-S18, GW-S19, GW-S20, GW-S21, GW-S26, and GW-S27. The concentrations ranged from 14 to 15,000 µg/L. The highest concentration was at GW-S27 from 10 to 15 ft bls.

In summary, although the concentrations of the CVOCs of concern in many Site B monitoring wells exceeded their respective NYSDEC AWQSGVs, only cis-1,2-DCE was detected at elevated concentrations (i.e., greater than 1,000 µg/L). Site D monitoring wells, in contrast, exhibited only minor exceedances of NYSDEC AWQSGVs. The discrete groundwater sampling data show a connection between Site B and Site D. Furthermore, the highest concentration of PCE, TCE, cis-1,2-DCE, and VC were all from one sample, GW-S27 from 10 to 15 ft bls, a strong indication of a potential source area.

2.5.2.2 SVOCs

Semi-volatile organic compounds (SVOCs) are not required to be monitored. The most recent samples analyzed for SVOCs were collected from Site D monitoring wells between November 2006 and October 2007. Concentrations of benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and chrysene exceeded their respective NYSDEC AWQSGV in the February 13, 2007 sample collected from monitoring well BMW-7S. No other exceedances were detected.

2.5.2.3 Metals, Cyanide, PCBs, Pesticides, and Herbicides

Metals, cyanide, PCBs, pesticides, and herbicides are not required to be monitored. The most recent samples analyzed for the aforementioned analytes were collected from Site D monitoring wells between November 2006 and October 2007. Concentrations of arsenic, barium, beryllium, chromium, copper, lead, manganese, mercury, nickel, and sodium exceeded their respective NYSDEC AWQSGV in one or more samples. Most of the exceedances were exhibited in monitoring wells BMW-7 and BMW-7S. Monitoring wells AP-4 and AP-5 only exhibited exceedances of manganese and sodium, and monitoring well AP-6 only exhibited exceedance of sodium. Note, these findings are for unfiltered groundwater samples; no samples were filtered for comparison.

Free cyanide was detected once in four (4) sampling events in monitoring well BMW-7, at 20 µg/L on February 13, 2007. This concentration is below the NYSDEC AWQSGV of 200 µg/L.

PCBs were non-detect in the samples collected from monitoring wells AP-4, AP-5, and AP-6.

2.5.3 Soil Vapor Quality

In May 2009, nine (9) soil vapor samples were collected throughout Site B, including seven (7) from the eastern portion. Afterwards, seven (7) quarterly soil vapor monitoring events were conducted at two locations at the northwestern corner of the eastern portion of Site B from August 2010 to February 2012. The number of detections and concentrations of the CVOCs of concern are summarized below.

PCE

PCE was present in all seven (7) samples collected in 2009. The concentrations ranged from 6 to 64 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$).

PCE was present in all quarterly soil vapor monitoring samples. The concentrations ranged from 5.1 to 120 $\mu\text{g}/\text{m}^3$.

TCE

TCE was present in two (2) samples collected in 2009. The concentrations were 14 and 64 $\mu\text{g}/\text{m}^3$.

TCE was present only in the February 23, 2012 quarterly soil vapor monitoring sample, at 1.3 $\mu\text{g}/\text{m}^3$.

Cis-1,2-DCE

Cis-1,2-DCE was present in two (2) samples collected in 2009. The concentrations were 33 and 36 $\mu\text{g}/\text{m}^3$.

Cis-1,2-DCE was present in the same February 23, 2012 quarterly soil vapor monitoring sample that exhibited TCE, at 2.5 $\mu\text{g}/\text{m}^3$.

VC

VC was non-detect in all samples collected in 2009 and all quarterly soil vapor monitoring samples.

There were no soil vapor samples collected at Site D prior to the performance of the RI.

3.0 REMEDIAL INVESTIGATION METHODOLOGIES

The RI was performed in accordance with the NYSDEC-approved RIWP, SRIWP, and the SSVIWP. The methodologies are detailed in the RIWP, SRIWP, and SSVIWP and thus will not be reiterated in this document. Discussions in this section are on implementation, conditions encountered, and deviations that occurred.

3.1 Membrane Interface Probe

Between March 8, 2012 and April 6, 2012, 36 membrane interface probe (MIP) borings (MIP-1 through MIP-23, MIP-25 through MIP-36, and MIP-7A) and six (6) hydraulic profiling borings (MIP-6, MIP-8, MIP-22, MIP-28, MIP-33, and MIP-35) were completed at the locations shown on Plate 1. The drilling work was performed by Zebra Environmental, with oversight provided by Roux Associates. The coordinates of each location were recorded using a field Global Positioning System device. Each location was pre-cleared to approximately five (5) ft bls to uncover unidentified subsurface features and/or remove obstructions that could impede the MIP. A Geoprobe® direct-push truck-mounted unit was used to advance MIP and hydraulic profiling borings at separate times. MIP data were collected continuously from ground surface until electron capture detector (ECD) readings, which correlate to CVOC concentrations, returned to background level; this typically occurred between 30 to 35 ft bls. Hydraulic profiling data were collected continuously from ground surface until termination at approximately 43 ft bls. Being of a small diameter, MIP and hydraulic profiling borings did not generate cuttings and backfilled naturally when the boring rods were retracted. Concrete was restored at borings located on the sidewalk and within Site D. The MIP and hydraulic profiling data are provided in Appendix A.

MIP borings were completed as proposed with the following exceptions. MIP-7 could not be completed as refusal was encountered at approximately seven (7) ft bls. Therefore, MIP-7A was advanced to obtain data representative of the area proximate to MIP-7. MIP-24 could not be completed due to the low ceiling at that part of Building 25. An alternate boring was not attempted after reviewing data from nearby locations MIP-16 and MIP-25, neither of which indicated subsurface CVOC impacts. MIP-33 was advanced past 40 ft bls when ECD readings did not return to background levels, and was terminated at approximately 70 ft bls after using all available boring rods. An additional MIP boring, MIP-36, was completed to delineate the eastern extent of subsurface CVOC impacts.

3.2 Confirmatory Discrete Soil and Groundwater Sampling

The MIP data was reviewed and shared with the NYSDEC to identify locations and depths from which discrete soil and groundwater samples would be collected. Consequently, 14 discrete locations with one or more sampling intervals were chosen (GWS-OU1-1 through GWS-OU1-14). The drilling work was performed by Roux Associates and Aquifer Drilling & Testing, Inc., with oversight provided by Roux Associates. The locations are shown on Plate 1. Table 1 summarizes the intervals sampled at each location. To determine whether CVOC impacts are present at 70 ft bls, as the MIP-33 ECD data suggested, samples were collected at GWS-OU1-10 from 45 to 50 ft bls and from 65 to 70 ft bls.

From May 30 to June 6, 2012 and from June 27 to July 3, 2012, a track-mounted Geoprobe® direct push drill rig was used to collect discrete soil and groundwater samples at GWS-OU1-1 through GWS-OU1-14. Soil from each interval was collected in new, dedicated acetate sleeves. After retrieval, samples were recorded for lithology, and were visually inspected for evidence of impact and screened for organic vapors in the field using a MiniRAE 2000 portable hand-held photoionization detector (PID). The soil boring logs are provided in Appendix B. Groundwater was collected using a Geoprobe® discrete groundwater sampler with a 5-foot sampling screen. Discrete groundwater at GWS-OU1-10 from 45 to 50 ft bls and from 65 to 70 ft bls were collected by first installing a temporary 1-inch diameter polyvinyl chloride (PVC) piezometer screened at the desired interval, then purging and sampling in accordance with the low flow sampling protocol as described in Section 3.4. The piezometers were withdrawn after sampling, and each borehole was backfilled with drill cuttings. Concrete was restored at sampling locations located on the sidewalk and within Site D.

Soil and groundwater samples were containerized in appropriate laboratory supplied bottleware, stored in an ice-containing cooler, and shipped under chain-of-custody procedures to HamptonClarke-Veritech Laboratories in Fairfield, New Jersey. Table 1 summarizes the analyses performed on each sample: VOCs via United States Environmental Protection Agency (USEPA) Method 8260, or a suite of analytes consisting of Target Compound List (TCL) VOCs, TCL SVOCs, Target Analyte List (TAL) metals, PCBs, pesticides, herbicides, and total cyanide.

3.3 Soil Boring

The RIWP Scope of Work proposed advancing two borings within Site D to a lower depth to confirm the confining layer. On May 29, 2012, a Geoprobe[®] direct-push truck-mounted unit was utilized to advance soil boring SB-OU1-1 to a depth of 40 ft bls. Soil was collected in new, dedicated acetate sleeves, and was continuously logged for lithology from ground surface to depth. Soils were visually inspected for evidence of impact and screened for organic vapors in the field using a MiniRAE 2000 portable hand-held PID. The soil boring log is provided in Appendix B. No samples were collected for laboratory analysis. The borehole was backfilled with drill cuttings. The other deep soil boring was GWS-OU1-10, whose lithology was logged continuously from ground surface to 70 ft bls.

3.4 Monitoring Well Gauging and Sampling

Existing monitoring wells AP-4, AP-5, AP-6, BMW-7, BMW-7S, MW-3, and MW-7 were gauged and sampled between June 1 and 6, 2012. New monitoring wells MW-D1, MW-D1I, MW-D2, MW-D2I, MW-D3, and MW-D3I were installed on February 21 and 22, 2013, then gauged and sampled on March 14, 2013. The locations of the monitoring wells are shown on Plate 1. Table 2 presents the screen intervals of Site B and Site D groundwater monitoring wells and those of BMW-7 and BMW-7S. Please note Roux Associates did not install monitoring wells AP-4, AP-5, and AP-6, and the associated screen intervals are not available. Water-level measurements were made from the top of the well casing to the depth of static groundwater. Following groundwater gauging, samples were collected using low-flow groundwater sampling procedures, in accordance with the USEPA's low-flow (minimal drawdown) protocol. A peristaltic pump and new, dedicated polyethylene tubing were used to withdraw groundwater during purging and sampling activities. Prior to collecting groundwater samples, each monitoring well was purged at flow rates between approximately 0.1 to 0.2 liters per minute (L/min). Flow rates were adjusted to maintain minimal drawdown in the monitoring well during purging activities. A Horiba U-52 water quality meter, equipped with an in-line flow-through cell, was used to monitor water quality indicator parameters (pH, conductivity, dissolved oxygen, oxidation-reduction potential, temperature, and turbidity). Purging was considered complete when field parameters had stabilized. Monitoring well field sampling data forms are provided in Appendix C. Samples were then collected, containerized in appropriate laboratory supplied bottleware, stored in an ice-containing cooler, and shipped under chain-of-custody procedures.

The Horiba U-52 water quality meter was decontaminated with non-phosphate soap and a fresh water rinse before proceeding to the next monitoring well.

Groundwater samples collected in 2012 were submitted to HamptonClarke-Veritech Laboratories in Fairfield, New Jersey for TCL VOCs, TCL SVOCs, TAL metals, PCBs, pesticides, herbicides, and total cyanide analysis. Metals samples were unfiltered and field filtered. Groundwater samples collected in 2013 were submitted to Accutest Laboratories in Dayton, New Jersey for VOC analysis via USEPA Method 8260.

The three cluster pairs of new monitoring wells: MW-D1 and MW-D1I, MW-D2, and MW-D2I, and MW-D3 and MW-D3I, were installed using the hollow-stem auger drilling method. Each cluster consists of one monitoring well installed to 19 ft bls and the other installed to 30 ft bls. All monitoring wells are constructed of 2-inch diameter, schedule 40, flush-joint internally-threaded PVC well casings and 10 feet of 20-slot well screen. The annular space between the well screen and the borehole was backfilled with No. 2 sand from the bottom of the well to approximately two (2) feet above the well screen. A one to two feet thick bentonite pellet seal was placed on top of the sand pack, and the balance of the annular space was backfilled with cement grout to ground surface. Each monitoring well was completed with a J-plug and an 8-inch, boltdown flush mount protective casing. The monitoring wells were developed utilizing a submersible pump with a surge block to ensure hydraulic connectivity with the aquifer after installation was completed. Development was consider complete when purge water did not exhibit marked decreases in turbidity, or ten well volumes of standing water had been removed. Monitoring well logs are provided as Appendix D.

3.5 Soil Vapor Sampling

Soil vapor sampling locations SV-AP1, SV-AP2, and SV-AP4 were installed between June 18 and 19, 2012. Soil vapor sampling location SV-AP3 was installed on June 27, 2012. Due to delays in obtaining an access agreement from the Department of Housing Preservation and Development of the City of New York, soil vapor sampling locations SV-AP5 and SV-AP6 were not installed until March 5, 2013. Soil vapor sampling locations SV-AP7 through SV-AP10 were installed on July 12, 2013. The locations of the 10 soil vapor sampling points are shown on Plate 1.

Soil vapor sampling points were constructed in accordance with the *2006 NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York*. A Geoprobe® equipped with a soil vapor sampling connector and a disposable drive point was used to advance to the target depth of six (6) ft bls. A soil vapor sampling port consisting of a 6-inch long stainless steel screen with a Teflon-lined sampling tube running to the surface was then installed within the boring. The annular space around the screen was filled with sand and a surface seal consisting of bentonite clay was installed to prevent ambient air intrusion. The end of the sampling tube was fitted with Master-Flex flexible tubing and tied off to prevent ambient air and/or water from entering the tubing prior to sample collection. Soil vapor sampling points SV-AP8, SV-AP9, and SV-AP10 were installed to three (3) ft bls because groundwater was encountered at approximately 4.5 ft bls.

Helium tracer gas was used to check seal integrity. Each sampling point was purged of approximately two tubing volumes using a vacuum pump at a rate of approximately 0.2 L/min. Seal integrity of every sampling point was confirmed as helium concentration measured at the sample tubing was less than 10 percent of the concentration in the enclosure.

Soil vapor sampling locations SV-AP1 through SV-AP4 were sampled on October 5, 2012. Due to a faulty regulator, soil vapor sampling location SV-AP1 was re-sampled on October 8, 2012. Soil vapor sampling locations SV-AP5 and SV-AP6 were sampled on March 5, 2013. Soil vapor sampling locations SV-AP1, SV-AP3, and SV-AP7 through SV-AP10 were sampled on July 17, 2013. Sampling consisted of collecting a two-hour duration soil vapor sample into a laboratory supplied, pre-evacuated, six-liter summa canister with a laboratory calibrated regulator. An ambient air sample was collected concurrently from an upwind location during each sampling event. The decrease in vacuum reading in all summa canisters ranged from 21 to 28 inches of mercury. All samples were submitted to TestAmerica Laboratories, Inc. in South Burlington, Vermont under chain of custody procedures for VOC analysis via USEPA Method TO-15.

All soil vapor sampling points except SV-AP3 and SV-AP4 are intended to be temporary. Soil vapor sampling points SV-AP5 and SV-AP6 have been destroyed, and the remainder will also be destroyed.

3.6 Test Pits

Between July 19 and 20, 2012, and July 26 and 27, 2012, three (3) test pits were completed, two (2) in the northern portion of Building 25A, and the other in the courtyard adjacent to Building 25A. These test pits are designated TPD-1, TPD-2, and TPD-3, respectively. The locations are shown on Plate 1. A saw and jackhammer were used to remove concrete ranging in thickness from 8 inches to 2 feet. The test pits were backfilled with excavated materials after completion, and the concrete in the courtyard was restored. Representative photos are provided as Appendix E.

Test pit TPD-1 was trapezoidal with side lengths measuring approximately 6.5, 15.5, 11.5, and 13.5 feet, and was excavated to approximately 6.5 ft bls. A soil sample was collected from the floor near the center of the test pit.

Test pit TPD-2 was trapezoidal with side lengths measuring approximately 16.5, 7.5, 15.5, and 5.5 feet, and was excavated to approximately 6.5 ft bls. A brick wall cutting across the shorter length of the test pit was encountered at approximately seven (7) feet west of the eastern edge of the test pit. A soil sample was collected from the floor near the center of the test pit, east of the brick wall.

Test pit TPD-3 was in the shape of a mirrored “L”, with the section perpendicular to Building 25A measuring approximately 7 feet by 20 feet, and the section parallel to Building 25A measuring 6 feet by 25 feet (these measurements includes a 6 feet by 7 feet overlapping area). The excavation terminated at approximately 8.5 ft bls after encountering groundwater. Three (3) soil samples were collected, one from each leg of the “L”, and one representative of typical excavated materials.

The five (5) soil samples were containerized in appropriate laboratory supplied bottleware, stored in an ice-containing cooler, and shipped under chain-of-custody procedures to HamptonClarke-Veritech Laboratories for VOC analysis via USEPA Method 8260.

3.7 Air Monitoring

A MiniRAE 2000 portable hand-held PID was used to monitor VOC concentrations in the work area periodically throughout the day during performance of intrusive activities. There were no exceedances of the action limit of five (5) parts per million (ppm). The monitoring data are provided in Appendix F.

3.8 Data Usability Summary Reports

Data Validation Services of North Creek, New York, reviewed the laboratory data deliverables packages and prepared Data Usability Summary Reports (DUSRs). The DUSRs are provided in Appendix G.

3.9 Hazardous Waste Disposal

In a letter dated February 28, 2013, the NYSDEC stated that PCE contaminated media from Site D is determined as an F-listed hazardous waste (F002) and a U-listed hazardous waste (U210). Investigation derived wastes from Site D were therefore transported and disposed offsite as hazardous waste to a Pfizer-approved facility. The manifests are provided in Appendix H.

4.0 REMEDIAL INVESTIGATION FINDINGS

The findings of the RI are presented in Tables 3 through 16. Please note data in Tables 10a and 16a were not collected as part of the RI and are provided for informational purposes. MIP readings were used to identify locations and depths from which discrete soil and groundwater samples were collected, and generally correlated with VOC exceedances in soil or groundwater. In soil, CVOC exceedances of the Part 375 Protection of Groundwater Criteria were limited to depths ranging from six (6) to 16 ft bls at locations underneath the north-central portion of Building 25A, and one location in the main courtyard of Site D. Test pitting at areas of soil impacts did not uncover any CVOC source materials (e.g., sludge containing pit or trap). Multiple CVOCs in exceedance of their respective NYSDEC AWQSGVs were detected in groundwater samples collected from underneath Building 25A and the main courtyard of Site D, and at downgradient locations in Site B. CVOC concentrations in groundwater were generally greater in the upper sampling intervals of Site D, approximately eight (8) to 20 ft bls, corresponding to intervals where soil impacts were encountered. In contrast, CVOC concentrations in groundwater were greater in the lower sampling intervals of Site B. CVOC concentrations in soil vapor were highest proximate to Building 25A and the main courtyard of Site D, but attenuated with distance from these areas.

4.1 Membrane Interface Probe

ECD, PID, and flame ionization detector (FID) readings from the 36 MIP borings (MIP-1 through MIP-23, MIP-25 through MIP-36, and MIP-7A) were used to qualitatively delineate the horizontal and vertical extents of VOC impacts, and to guide the locations and intervals of confirmatory soil and groundwater sampling.

The following MIP borings exhibited ECD readings significantly above baseline:

- MIP-1
- MIP-2
- MIP-4
- MIP-5
- MIP-7A
- MIP-8
- MIP-9
- MIP-10
- MIP-11
- MIP-12
- MIP-13
- MIP-14
- MIP-15
- MIP-19
- MIP-20
- MIP-21
- MIP-22
- MIP-33
- MIP-35
- MIP-36

ECD readings were reviewed separately from PID/FID readings because, of the three detectors, ECD is the most sensitive to CVOCs. Generally, high ECD readings were detected between approximately 20 and 30 ft bls, and returned to background levels by approximately 35 ft bls. Peak ECD readings typically occurred at approximately 24 to 28 ft bls, consistent with the denser nature of CVOCs and the transition from the sand stratum to the silt/clay confining layer at approximately 30 ft bls. All four MIP borings advanced in Building 25A (MIP-19 through MIP-22) exhibited ECD readings significantly above baseline, with weak (MIP-20) to strong (MIP-19) readings between 5 and 15 ft bls. ECD detections at higher elevations (i.e., shallow depths) at these locations are consistent with prior findings of soil impacts between 9 and 11 ft bls beneath Building 25A. ECD readings obtained from the other adjoining Site D buildings (MIP-23 and MIP-25 through MIP-31) indicated low to zero CVOC impacts.

An unexpected finding was the high ECD readings detected at MIP-33, located in the main courtyard of Site D. ECD readings above baseline were detected from approximately 14 to 70 ft bls. As the confirmatory sampling data showed, the high ECD readings were an artifact. The likely explanation is high concentrations of CVOC vapors in the gas chromatogram's column continued to bleed off and were detected by the ECD as the MIP probe was advanced. This conjecture is supported by the absence of PID peaks at depth, which should have registered detections at depths corresponding to high ECD readings if the discrete ECD readings had actually been real. Discrete soil and groundwater samples collected from 45 to 50 ft bls and 65 to 70 ft bls at this location exhibited either low or non-detect levels of CVOCs, confirming the hypothesis.

The following MIP borings exhibited FID/PID readings significantly above baseline:

- MIP-1
- MIP-2
- MIP-3
- MIP-13
- MIP-14
- MIP-16
- MIP-17
- MIP-27
- MIP-29
- MIP-30
- MIP-31

Generally, high FID/PID readings were detected between 8 and 15 ft bls. Peak FID/PID readings typically occurred at approximately 9 to 10 ft bls. Most of these borings are either located at Site B or on Gerry Street, with only MIP-27 located at Site D. These FID/PID readings were not unexpected considering residual petroleum impacts exist at the water table.

4.2 Hydraulic Profiling

Hydraulic profiling was performed at six locations (MIP-6, MIP-8, MIP-22, MIP-28, MIP-33, and MIP-35) to obtain hydraulic conductivity data representative of OU-1. The data shows two distinct layers underneath Site D:

- A high permeability layer (large K values) between approximately 14 to 16 ft bls and 20 to 26 ft bls, generally coinciding with the sand stratum; and
- A low permeability layer (low K values) starting from approximately 24 to 32 ft bls, generally coinciding with the gray silt/clay stratum.

For Site B, the profile at MIP-6 indicates a high permeability layer down to 42 ft bls. This high permeability layer is likely made of sand because at nearby monitoring well MW-3, sand was encountered from just below grade to 12 ft bls, after which there was no recovery. The profile at MIP-8 is similar to Site D since there is a low permeability layer starting at approximately 26 ft bls.

4.3 Site Geology

Lithological data from the two deep soil borings, SB-OU1-1 and GWS-OU1-10, confirm the existence of a minimum 10 feet thick, low permeability gray silt/clay stratum typically encountered between 25 and 30 ft bls. The information was used to update the geologic sections on Plate 2.

4.4 Site Hydrogeology

Plate 3 presents a map of the groundwater potentiometric surface and flow for OU-1. Groundwater elevations are per gauging data collected from MW-D1, MW-D1I, MW-D2, MW-D2I, MW-D3, MW-D3I, and the 17 Site B monitoring wells gauged during the March 2013 semi-annual groundwater monitoring event. The data indicates groundwater generally flows from Site D toward Site B in a northerly direction. There is a northwesterly flow component as groundwater flows past Site B toward Wallabout Street.

4.5 Soil Quality

Plates 4, 5, and 6 summarize the concentrations of VOCs; SVOCs; and metals, cyanide, PCBs, pesticides, and herbicides, respectively, detected in the soil within and surrounding OU-1 from samples collected as part of the RI and selected samples from previous investigations. The analytical data for all except VOCs were compared to the Part 375 Restricted Residential Use Criteria. VOCs were compared to the Part 375 Protection of Groundwater Criteria.

The RI findings indicate VOC and metal exceedances. VOC exceedances were limited to the CVOCs of concern except for one (1) exceedance of 2-butanone, four (4) exceedances of acetone, and one (1) exceedance of methylene chloride. CVOC exceedances were limited to depths ranging from six (6) to 16 ft bls at locations underneath the north-central portion of Building 25A and one location in the main courtyard of Site D. Arsenic and mercury exceeded their respective Part 375 Restricted Residential Use Criteria in one sample at GWS-OU1-6 from nine (9) to 11 ft bls.

4.5.1 VOCs

Thirty-one (31) samples and five (5) duplicates were collected and analyzed for VOCs. The data are presented in Table 4. Excluding the CVOCs of concern, there were exceedances of 2-butanone, acetone, and methylene chloride. 2-butanone exceedance was detected at GWS-OU1-14 in the 13 to 14 ft bls sample. Acetone exceedances were detected at GWS-OU1-5 in the 25 to 30 ft bls sample, at GWS-OU1-6 in the 13 to 15 ft bls sample, at GWS-OU1-9 in the 14 to 15 ft bls sample, and at GWS-OU1-14 in the 13 to 14 ft bls sample. Methylene chloride exceedance was detected at GWS-OU1-6 in the 9 to 11 ft bls sample.

The following discussions focus on the CVOCs of concern.

PCE

Exceedances were detected in samples at GWS-OU1-5 from 8 to 10 ft bls, at GWS-OU1-7 from six (6) to 10 ft bls and from 10 to 13 ft bls, and at GWS-OU1-11 from 14 to 15 ft bls and from 15 to 16 ft bls. The concentrations ranged from 1.5 to 280 mg/kg. The highest concentration was at GWS-OU1-11 in the 14 to 15 ft bls sample.

TCE

Exceedances were detected in samples at GWS-OU1-5 from 8 to 10 ft bls at 4.2 mg/kg, and at GWS-OU1-7 from 6 to 10 ft bls at 0.51 mg/kg.

Cis-1,2-DCE

Exceedances were detected in samples at GWS-OU1-5 from 8 to 10 ft bls, at GWS-OU1-7 from 6 to 10 ft bls and from 10 to 13 ft bls, and at GWS-OU1-8 from 10 to 15 ft bls. The concentrations ranged from 4.5 to 12 mg/kg. The highest concentration was at GWS-OU1-7 in the 6 to 10 ft bls sample.

VC

Exceedances were detected in samples at GWS-OU1-6 from 9 to 11 ft bls at 0.048 mg/kg, and at GWS-OU1-7 from 10 to 13 ft bls at 0.16 mg/kg.

4.5.2 SVOCs

Ten (10) samples and three (3) duplicates were collected from nine (9) locations and analyzed for TCL SVOCs. The data are presented in Table 5. There were no exceedances of the Part 375 Restricted Residential Use Criteria.

4.5.3 Metals, Cyanide, PCBs, Pesticides, and Herbicides

Ten (10) samples and three (3) duplicates were collected from nine (9) locations and analyzed for TAL metals, cyanide, PCBs, pesticides and herbicides. The data are presented in Tables 6 through 8. The only RI sample that exhibited metal exceedances was at GWS-OU1-6 from 9 to 11 ft bls for arsenic and mercury. The arsenic concentration was 25 mg/kg, and the mercury concentration was 0.96 mg/kg.

Cyanide, PCBs, pesticides and herbicides were non-detect in all RI samples with two exceptions. 0.56 mg/kg of free cyanide was detected at GWS-OU1-6 in the 9 to 11 ft bls sample. 0.0043 mg/kg of 4,4'-DDD was detected at GWS-OU1-11 in the 14 to 15 ft bls sample. Both analytes were below their respective Part 375 Restricted Residential Use Criteria.

4.5.4 Total Organic Carbon

A soil sample from GWS-OU1-1 and GWS-OU1-11 were collected and analyzed for total organic carbon (TOC). The data are presented in Table 9. TOC concentrations were 1.3 and 0.41 percent, respectively.

4.6 Test Pits

Materials excavated from the three test pits consisted of fill, debris, wood, bricks, and other miscellaneous items (e.g., household trash). There were three (3) pipes inside test pit TPD-1. Two (2) of the pipes were at approximately four (4) ft bls and extend into the courtyard to the west. The burial depth of the third pipe could not be determined as it was discovered within excavation spoils. PID readings of representative excavated materials ranged from 1.5 to 4.4 ppm. Soil sample TPD-1 exhibited a PID reading of 1.7 ppm. PCE was the only VOC that exceeded the Part 375 Protection of Groundwater Criteria.

There was a brick wall in test pit TPD-2, but there were no indications of staining. PID readings of representative excavated materials ranged from 0.0 to 5.3 ppm. Soil sample TPD-2 exhibited a PID reading of 1.7 ppm. VOC concentrations did not exceed their respective Part 375 Protection of Groundwater Criteria.

There was piping that exhibited fuel oil odor encountered in the section perpendicular to Building 25A in test pit TPD-3. However, there were no signs of a UST near the pipes. PID reading inside the pipe was 448.4 ppm. Slight sheen was observed in the water at the bottom of the excavation near the pipes. PID readings of representative excavated materials ranged from 0.3 to 1.4 ppm. Soil sample TPD-3 NS was collected from the section parallel to Building 25A and exhibited a PID reading of 21.5 ppm. Soil sample TPD-3 WE was collected from the section perpendicular to Building 25A and exhibited a PID reading of 10.3 ppm. VOC concentrations in all three (3) samples did not exceed their respective Part 375 Protection of Groundwater Criteria.

In summary, there were no visual indications of CVOC impacts or source materials in the test pits.

4.7 Groundwater Quality

Plates 7, 8, and 9 summarize the concentrations of VOCs; SVOCs; and metals, cyanide, PCBs, pesticides, and herbicides, respectively, detected in groundwater within and surrounding OU-1 from samples collected as part of the RI and selected samples from previous investigations. Groundwater samples collected from monitoring wells AP-4, AP-5, AP-6, BMW-7, BMW-7S, MW-3, and MW-7 were analyzed for TCL VOCs, TCL SVOCs, TAL metals, PCBs, pesticides, herbicides, and total cyanide. Discrete groundwater samples were analyzed for VOCs. The analytical data were compared to NYSDEC AWQSGVs.

The RI findings indicate VOC and metal exceedances. In monitoring well samples, multiple PCE, TCE, cis-1,2-DCE, and VC exceedances were detected, whereas 1,1-dichloroethene (1,1-DCE), and trans-1,2-dichloroethene (trans-1,2-DCE) exceedances were detected in monitoring well MW-D2 only. Sodium and manganese were the two metals that exceeded their respective NYSDEC AWQSGVs. Nearly all of the metals in groundwater are present as dissolved species.

4.7.1 VOCs

Forty-two (42) samples and five (5) duplicates were collected and analyzed for TCL VOCs. The data are presented in Table 10. Thirteen (13) of the 42 samples were collected from monitoring wells, and the other 29 were discrete samples collected from 14 locations. Multiple discrete samples were collected at two (2) locations in Site B (GWS-OU1-1 and GWS-OU1-3), and seven (7) locations in Site D (GWS-OU1-5, GWS-OU1-6, GWS-OU1-7, GWS-OU1-9, GWS-OU1-10, GWS-OU1-11, and GWS-OU1-13). Since monitoring well samples are more representative of groundwater quality than discrete groundwater samples, discussions will consider them separately.

PCE

Exceedances were detected in nine (9) monitoring wells (AP-4, BMW-7S, MW-3, MW-D1, MW-D1I, MW-D2, MW-D2I, MW-D3, and MW-D3I). The concentrations ranged from 13 to 57,000 µg/L. The highest concentration was detected in monitoring well MW-D1.

Exceedances were detected at 11 locations (GWS-OU1-1 through GWS-OU1-11). The concentrations ranged from 8.5 to 90,000 µg/L. The highest concentration was detected at

GWS-OU1-11 from 10 to 15 ft bls. The vertical distribution increased with depth at Site B and Site D locations GWS-OU1-6, GWS-OU1-7 and GWS-OU1-9, but decreased with depth at Site D locations GWS-OU1-5, GWS-OU1-10 and GWS-OU1-11.

TCE

Exceedances were detected in six (6) monitoring wells (MW-3, MW-D1, MW-D1I, MW-D2, MW-D2I, and MW-D3). The concentrations ranged from 31.3 to 2,200 µg/L. The highest concentration was detected in monitoring well MW-D1.

Exceedances were detected at 10 locations (GWS-OU1-1 through GWS-OU1-4, and GWS-OU1-6 through GWS-OU1-11). The concentrations ranged from 5.5 to 4,600 µg/L. The highest concentration was detected at GWS-OU1-11 from 10 to 15 ft bls. The vertical distribution increased with depth at Site B and Site D locations GWS-OU1-6 and GWS-OU1-7, but decreased with depth at Site D locations GWS-OU1-9, GWS-OU1-10 and GWS-OU1-11.

Cis-1,2-DCE

Exceedances were detected in 10 monitoring wells (BMW-7, BMW-7S, MW-3, MW-7, MW-D1, MW-D1I, MW-D2, MW-D2I, MW-D3, and MW-D3I). The concentrations ranged from 5.7 to 23,500 µg/L. The highest concentration was detected in monitoring well MW-D2.

Exceedances were detected at 11 locations (GWS-OU1-1 through GWS-OU1-11). The concentrations ranged from 9.5 to 11,000 µg/L. The highest concentration was detected at GWS-OU1-9 from 10 to 15 ft bls. The vertical distribution increased with depth at Site B, but mostly decreased with depth at Site D.

VC

Exceedances were detected in seven (7) monitoring wells (BMW-7, MW-3, MW-D1, MW-D2, MW-D2I, MW-D3, and MW-D3I). The concentrations ranged from 5.2 to 2,920 µg/L. The highest concentration was detected in monitoring well MW-D2.

Exceedances were detected at 11 locations (GWS-OU1-1 through GWS-OU1-11). The concentrations ranged from 2.1 to 2,200 µg/L. The highest concentration was detected at

GWS-OU1-9 from 10 to 15 ft bls. The vertical distribution increased with depth at Site B, but mostly decreased with depth at Site D.

Excluding the CVOCs of concern, VOCs in exceedance of their respective NYSDEC AWQSGVs were detected at all discrete groundwater sampling locations except GWS-OU1-7, GWS-OU1-12, and GWS-OU1-14. A summary table of exceedances follows:

Table 4-1: VOC Exceedances of NYSDEC AWQSGVs

Analyte	Number of Exceedances	Concentration range (µg/L)
Acetone	1	310
1,1-DCE	7	5.9 – 27
1,2,4-trimethylbenzene	4	15 – 350
1,2-dichloroethane	2	1.2 – 1.3
1,3,5-trimethylbenzene	3	5.5 – 30
Benzene	1	3.8
Ethylbenzene	1	190
Isopropylbenzene	1	300
Methyl tert-butyl ether	3	11 – 15
n-butylbenzene	1	38
n-propylbenzene	2	7.1 – 380
p-isopropyltoluene	1	8.5
Sec-butylbenzene	1	42
Toluene	1	5.1
Trans-1,2-DCE	11	5.4 – 95
Xylenes	1	13.5

It should be noted that two VOCs in addition to the CVOCs of concern were detected in exceedance of their respective NYSDEC AWQSGV in monitoring well MW-D2: 1,1-DCE at 55.9 µg/L, and trans-1,2-DCE at 54.4 µg/L.

VOC data from monitoring wells exhibiting exceedances of NYSDEC AWQSGVs in the March 2013 and/or September 2013 semi-annual groundwater sampling events are presented in Table 10a and Plate 7. Plate 10 provides a generalized extent of the CVOC plume based on the September 2013 groundwater monitoring data.

4.7.2 SVOCs

Seven (7) samples and one (1) duplicate were collected and analyzed for TCL SVOCs. The data are presented in Table 11. SVOCs were non-detect in all seven (7) samples.

4.7.3 Metals, Cyanide, PCBs, Pesticides, and Herbicides

Seven (7) samples and one (1) duplicate, unfiltered and filtered, were collected and analyzed for TAL metals, cyanide, PCBs, pesticides and herbicides. The data are presented in Tables 12 through 14. Sodium exceedances of the NYSDEC AWQSGV were detected in every sample. Manganese exceedances of the NYSDEC AWQSGV were detected in AP-4 (unfiltered), BMW-7 (unfiltered and filtered), MW-3 (unfiltered and filtered), and MW-7 (unfiltered and filtered). Almost all of the metals in groundwater are present as dissolved species because filtered and unfiltered sample concentrations were similar.

Cyanide, PCBs, pesticides and herbicides were non-detect in all seven (7) samples.

4.7.4 Total Organic Carbon

A groundwater sample from monitoring well AP-4 was collected and analyzed for total organic carbon (TOC). The data is presented in Table 15. TOC was 5.3 µg/L.

4.8 Soil Vapor Quality

Plate 11 and Table 16 summarize the concentrations of VOCs detected in soil vapor. Plate 11 also includes soil vapor sampling at the 1849/1869 lot from April 5, 2007, which is discussed further below, and data from the most recent soil vapor sampling event at Site B on February 23, 2012. Please note these data, which are provided in Table 16a, were not collected as part of the RI and are provided for informational purposes. The number of detections and concentrations of the CVOCs of concern are summarized below. Per Section 3.2.5a of the 2006 NYSDOH *Guidance for Evaluating Soil Vapor Intrusion in the State of New York*, there are no standards,

criteria, or guidance values for concentrations of volatile chemicals in subsurface vapors. However, the NYSDOH has developed indoor and outdoor air guideline values for PCE ($100 \mu\text{g}/\text{m}^3$) and TCE ($5 \mu\text{g}/\text{m}^3$), which will be used for comparison.

The RI findings indicate CVOC concentrations in soil vapor are highest near those areas where soil and groundwater CVOC concentrations are the greatest (i.e., proximate to Building 25A and the main courtyard of Site D). Concentrations decreased with distance from the impacted areas, confirmed by the July 17, 2013 sampling event data that showed PCE and TCE soil vapor concentrations attenuating westward from the main courtyard of Site D across Harrison Avenue.

PCE

PCE was detected at eight (8) sampling locations (SV-AP1 through SV-AP8). The concentrations ranged from 16 to $76,000 \mu\text{g}/\text{m}^3$. The highest concentration was detected at SV-AP4. Concentrations at SV-AP1 (in the October 8, 2012 sample but not in the July 17, 2013 sample), SV-AP3 (both sampling events), SV-AP4, SV-AP6, and SV-AP7 were greater than the guidance value of $100 \mu\text{g}/\text{m}^3$.

As mentioned above, the July 17, 2013 data showed PCE soil vapor concentrations decreasing westward from the main courtyard of Site D across Harrison Avenue. Specifically, PCE concentrations decreased from $23,000 \mu\text{g}/\text{m}^3$ at SV-AP3 to $360 \mu\text{g}/\text{m}^3$ at SV-AP7, to $76 \mu\text{g}/\text{m}^3$ at SV-AP1, to $31 \mu\text{g}/\text{m}^3$ at SV-AP8 and non-detect at SV-AP9 (SV-AP8 and SV-AP9 are approximately equidistant from SV-AP1), and to non-detect at SV-AP10.

TCE

TCE was detected at six (6) sampling locations (SV-AP2, SV-AP3, SV-AP4, SV-AP6, SV-AP7, and SV-AP9). The concentrations ranged from 2.5 to $6,100 \mu\text{g}/\text{m}^3$. The highest concentration was detected at SV-AP4. Concentrations at SV-AP3 (both sampling events), SV-AP4, SV-AP6, SV-AP7, and SV-AP9 were greater than the guidance value of $5 \mu\text{g}/\text{m}^3$.

As mentioned above, the July 17, 2013 data showed TCE soil vapor concentrations decreasing westward from the main courtyard of Site D across Harrison Avenue. Specifically, TCE concentrations decreased from $4,000 \mu\text{g}/\text{m}^3$ at SV-AP3 to $13 \mu\text{g}/\text{m}^3$ at SV-AP7, to non-detect at

SV-AP1, to non-detect at SV-AP8 and $7 \mu\text{g}/\text{m}^3$ at SV-AP9 (SV-AP8 and SV-AP9 are approximately equidistant from SV-AP1), and to non-detect at SV-AP10.

Cis-1,2-DCE

Cis-1,2-DCE was detected at two (2) sampling locations (SV-AP3 and SV-AP4). Concentrations ranged from 1,400 to $1,500 \mu\text{g}/\text{m}^3$. The highest concentration was detected at SV-AP3. All other locations were non-detect.

VC

Vinyl chloride was not detected at any sampling location.

To further support the RI finding that soil vapor concentrations attenuate westward from the main courtyard of Site D across Harrison Avenue, subslab soil vapor sampling data collected prior to the RI in April 5, 2007 at the 1849/1869 lot are presented in Table 16a and Plate 11. The DUSR is provided in Appendix G. The 1849/1869 lot is the area between Harrison Avenue and the Beginning with Children Charter School. Although currently vacant, part of the 1849/1869 lot was developed with buildings on a concrete slab-on-grade separate from the school back in 2007. A detailed description of the sampling, analysis, and findings follows.

On April 5, 2007, Roux Associates installed temporary sub-slab soil vapor sampling points SV-1 through SV-6 by first drilling a 1-inch diameter hole through the concrete floor slab of the former 1849/1869 Buildings using an electric powered hammer drill. The concrete slab ranged in thickness from five (5) inches to a maximum of seven (7) inches. The two-inch interval of sub-slab soil/aggregate material located immediately below the floor slab was removed. Inert Teflon™ tubing was then inserted into the borehole, and the annular space was backfilled with clean coarse sand to the bottom of the concrete slab. Non-volatile organic compound emitting clay was then used to seal the remainder of the annular space to the surface of the concrete slab. The locations of SV-1 through SV-6 were chosen away from cracks or drains to minimize potential ambient air infiltration.

Following installation of SV-1 through SV-6, approximately three volumes of air were purged from the Teflon™ sampling tube using a low flow air pump at a rate of 0.1 L/min to ensure a

representative soil vapor sample was collected. During purging activities, a tracer gas (i.e., helium) was used to verify that the ambient air did not dilute the sub-slab vapor sample. An enclosure (clean, empty five-gallon bucket) was inverted over the sampling point. Helium was then introduced into the bucket, creating a helium-enriched environment immediately over the sample point. A tedlar sampling bag was attached to the low-flow air pump and filled with the purge vapor as the helium was added to the enclosure over the top of the borehole. The vapor in the tedlar bag was then screened for helium using a direct read field meter. The atmosphere in the enclosure was also screened for helium using a direct read field meter. The helium concentration in the tedlar bag was then compared to the concentration in the enclosure. At all sampling locations, the helium concentration in the tedlar bag was less than 20 percent of the helium concentration in the enclosure, verifying a true, representative sub-slab vapor sample not influenced by ambient air would be collected.

Following purging activities, a portable, direct read PID was used to screen each point for VOCs. A laboratory cleaned and evacuated six-liter summa canister was then attached to the top of the Teflon™ tubing above land surface. The summa canister was equipped with a laboratory provided flow regulator that was pre-calibrated by the laboratory to collect samples over a continuous eight-hour time period. The valve on the summa canister was then opened, allowing for the collection of a vapor sample. The decrease in vacuum reading in all summa canisters ranged from 25 to 29.5 inches of mercury. Following the eight-hour collection period, the samples were submitted to TestAmerica Laboratories, Inc. in South Burlington, Vermont under chain of custody procedures for VOC analysis via USEPA Method TO-15. SV-1 through SV-6 were then removed and permanently sealed with grout cement.

As shown by the data collected from SV-6 and SV-AP9 (summarized in Table 4-2), two points located in the same vicinity, the 2007 and 2013 data are comparable despite being collected six years apart. Therefore, the 2007 and 2013 data can be evaluated as one representative data set of soil vapor impacts at the 1849/1869 lot.

Table 4-2: Comparison of Soil Vapor Concentrations Detected at SV-6 and SV-AP9

Analyte (Concentration in $\mu\text{g}/\text{m}^3$)	SV-6	SV-AP9
1,1-dichloroethane	2.3 J	4.9 U
1,1,1-trichloroethane	7.1 J	26
Acetone	110 J	320
Benzene	2.2 J	3.9 U
Carbon disulfide	3.1 UJ	33
Chloroform	63 J	450
Cyclohexane	2.5 J	4.2 U
Methyl ethyl ketone	7.1 J	10
n-heptane	1.7 J	5.0 U
PCE	5.8 J	8.2 U
TCE	4.9 J	7
Toluene	9.4 J	5.7
Xylenes	7.8 J	5.4

As shown in Table 4-3, which summarizes soil vapor PCE and TCE concentrations at SV-1 through SV-6 and SV-AP8 through SV-AP10, the highest CVOC levels were detected at SV-6, SV-AP8, and SV-AP9, all located farthest away from the school. At the two sampling locations closest to the school, SV-1 and SV-2, subslab PCE concentrations were negligible and TCE concentrations were non-detect. None of the subslab PCE and TCE concentrations assessed using the matrices in the 2006 NYSDOH *Guidance for Evaluating Soil Vapor Intrusion in the State of New York* warranted monitoring or mitigation. The 2007 soil vapor sampling data therefore supports the conclusion that there is no remarkable soil vapor gradient westward beyond Harrison Avenue.

Table 4-3: Comparison of Soil Vapor Concentrations Detected at SV-6 and SV-AP9

Sample Location ID	PCE Concentration ($\mu\text{g}/\text{m}^3$)	TCE Concentration ($\mu\text{g}/\text{m}^3$)
SV-1	1.4	1.1 U
SV-2	2.6 J	1.1 UJ
SV-3	1.4 J	1.1 UJ
SV-4	1.4 UJ	1.1 UJ
SV-5	3.1	1.1 U
SV-6	5.8 J	4.9 J
SV-AP8	31	5.4 U
SV-AP9	8.2 U	7
SV-AP10	14 U	11 U

5.0 CONCEPTUAL SITE MODEL

A conceptual site model (CSM) presents the current understanding of the site based on relevant site features (natural and manmade), sources and extent of identified contamination, receptors that could be affected by impacted media, and risks posed by the exposure. The CSM can serve as a planning tool to support the remedial decision making process, and can also facilitate the identification of data and information gaps, if any. Once the CSM is established, additional data can be gathered and integrated into the CSM to maintain an up-to-date understanding of key site conditions such as physical characteristics (e.g., hydrogeologic conditions, amount of pervious cover), contamination characteristics (e.g., nature and extent, migration issues), and potential exposure pathways (i.e., land use changes over time).

5.1 Historic Operations and Potential Sources of Contamination

As part of a CSM, it is important to develop an understanding of the potential sources of contamination by reviewing historic operations at Site B and Site D. Both were part of Pfizer's Brooklyn facility, which began on or about 1849.

5.1.1 Site B

Residential and commercial developments existed on the eastern portion of Site B between 1887 and April 2, 1964, when Pfizer took ownership. Commercial enterprises included a fur factory, potential coffee roaster, carriage repository, wholesale grocer, 75-car garage, and truck renting facility. Two gasoline USTs associated with these past operations were identified on Sanborn fire insurance maps, which were removed as part of the 2002 IRM activities.

When Pfizer took ownership, a vacant building covered the majority of the eastern portion of Site B. Pfizer began using the building from the 1970s to the late 1980s as a warehouse for the storage of raw materials/dry goods, spare equipment parts, and packaging materials. The building was then leased to Arlington Press for employee parking. By March 1, 1996, Pfizer had the building demolished. The eastern portion of Site B returned to use as Arlington Press employee parking until Arlington Press closed near the end of 2007. Since then, the eastern portion of Site B has been vacant except for a treatment system equipment container that was removed in April 2013.

Based on available information and Pfizer's past uses and operations, there are no known sources of CVOCs on Site B. Historic fill used at Site B is a potential source of polycyclic aromatic hydrocarbons (PAHs) and metals.

5.1.2 Site D

Residential and commercial developments existed on Site D between 1887 and 1947, when Pfizer took ownership of parts of Site D. Commercial enterprises included a wheelwright, soft soap facility, fur-dressing store, event hall, tailor shop, carriage repository, and small soda water facility. Additionally, a National Guard of the State of New York Armory was present by 1918 that was then replaced by one and two-story buildings by 1935. Sanborn fire insurance map identified three gasoline USTs in 1935 that were no longer present by 1965.

Pfizer occupied Site D as early as 1947, but did not own the entirety until the building on 66 Gerry Street (later designated as Building 25A) was purchased in 1965. Pfizer used Site D for storage purposes and general maintenance work supporting the Pfizer Brooklyn facility. Paints were also stored at ground level of the maintenance department of Arlington Press (central Gerry Street one-story building), together with lumber. Pfizer activities (circa 1965 as it relates to the current building layout) included welding at the location of the existing courtyard and metal working within the existing one and two-story building. Pfizer housed its engineering and maintenance departments in this building that supported all Brooklyn-based Pfizer manufacturing operations at that time. Arlington Press leased this facility from Pfizer from January 1987 to the end of 2007. Site D has been vacant since 2008.

A potential contaminant source was recognized during the December 7, 2009 discovery of a 1956 affidavit related to a permit to construct by the owner of a PCE reclamation business located at 66 Gerry Street (a/k/a Building 25A). It is not clear whether PCE reclamation activities were actually conducted onsite, and if so, the duration. It is certain that Pfizer did not conduct any activities involving PCE since taking ownership of Site D and Building 25A in 1965.

Historic fill used at Site D is a potential source of PAHs and metals.

5.2 Contaminant Release and Migration

If the PCE reclamation facility had operated, then PCE releases could have occurred as a result of substandard housekeeping practices, leaking pipes, drains, cracks in the floor, or spills from drums or daily operations. This assumption is consistent with finding the highest CVOC soil impacts underneath the northern half of Building 25A and the adjacent courtyard. It was also observed that PCE soil impacts are present to 16 ft bls, and CVOC soil impacts in general were not detected past 21 ft bls. The limited downward migration, despite presumed releases that occurred more than 50 years ago, is likely attributable to: (a) the lack of a vertical hydraulic gradient during and following precipitation events since concrete covers all of Site D; and (b) retardation due to adsorption to organic materials in the subsurface, such as the two to three feet of thick green clay/silt/sand present at eight to 10 ft bls.

As groundwater flows underneath this area, bound CVOCs desorb and partition into the aqueous medium. The CVOC plume migrates according to groundwater flow direction, beginning from the northern part of Site D, proximate to Building 25A and the main courtyard, and extending across Gerry Street to Site B. The eastern and western extents are approximately at the eastern and western boundaries of Site B, that is, east of monitoring well MW-8 and Harrison Avenue, respectively. Vertically, the plume spans the sandy aquifer from the water table to the silt/clay confining stratum, with higher CVOC concentrations typically detected in the lower portion of the aquifer. The spatial distribution of the CVOC plume reflects vertical and horizontal expansion as the plume travels underneath Site D, Gerry Street, and Site B in the higher hydraulic conductivity sand stratum; the natural tendency for CVOCs, which are denser than water, to “sink”; and attenuation resulting from dilution and biological breakdown of PCE to daughter products TCE, cis-1,2-DCE, and VC. These daughter products are detected in most groundwater samples, and generally comprise a greater percentage of total CVOCs at downgradient locations. This is indicative of bacteria induced biodegradation since there has been no remediation performed at Site D, and CVOC removal via SVE/AS technology at Site B would not result in the observed distribution.

Lastly, CVOCs in soils and groundwater also partition into the vadose zone, resulting in detectable soil vapor impacts. Concentrations are highest proximate to Building 25A and the main courtyard, but attenuate with distance even though Site D and the surrounding area is

mostly covered with concrete or asphalt, which limits upward migration and dissipation to the atmosphere.

With respect to PAHs and metals, there are no discernible patterns to the distribution of soil impacts, consistent with the understanding of past usage of historic fill at Site B and Site D. The lack of groundwater impacts indicates PAHs and metals are bound to the historic fill materials and will not migrate offsite.

5.3 Qualitative Exposure Assessment

The objective of the qualitative exposure assessment of the CSM is to describe how human receptors may be exposed to site contaminants based upon the site-specific conditions, and to assess whether there are any complete or potentially complete exposure pathways. There are CVOC impacts in soil, groundwater, and soil vapor. PAH and metal impacts are also present in soil. The following sections present an overview of the qualitative human health exposure assessment based upon the current understanding of site conditions.

5.3.1 Human Health Exposure Assessment

An exposure pathway describes the means by which an individual may be exposed to contaminants originating from a site. An exposure pathway has five elements: (1) a contaminant source; (2) contaminant release and transport mechanisms; (3) a receptor population; (4) a point of exposure, and (5) a route of exposure. The following paragraphs provide an overview discussion of contaminant sources, contaminant release and transport mechanisms, and onsite and offsite exposure pathways that may potentially exist for OU-1.

Contaminant Sources

There are two contaminant sources: the presumed historic PCE reclamation business and historic fill. The presumed operation of the historic PCE reclamation business likely contributed to CVOC impacts in the northern half of Building 25A and the adjacent courtyard. The use of historic fill is prevalent and widespread across OU-1, is typical of past urban (i.e., Brooklyn) practices, and likely contributed to the concentrations of metals and PAHs present across OU-1.

Contaminant Release and Transport Mechanisms

Potential releases of PCE from the historic PCE reclamation facility, due to substandard housekeeping practices, leaking pipes, drains, cracks in the floor, or spills from drums or daily operations, resulted in CVOC impacts to soil and groundwater beneath OU-1. PCE potentially released at Site D exist in the subsurface adsorbed to soil particles in the unsaturated and saturated zones, dissolved in groundwater, and as soil vapor. PAHs and metals in historic fill are not associated with a release and are present in the subsurface adsorbed to soil particles in the unsaturated and saturated zones. Dissolved metals are also present in groundwater, but sodium and manganese impacts are typically associated with naturally occurring materials and do not originate from historic fill.

Potential Receptor Population

Potential onsite receptors include workers, visitors, and trespassers. Potential offsite receptors include offsite workers and offsite residents.

Potential Points and Routes of Exposure

Onsite workers and visitors may contact contaminants potentially present in soils during general maintenance or construction activities. Such contact with potentially contaminated soils can result in exposure via dermal adsorption or incidental ingestion. However, the potential for workers and visitors to contact contaminated soils is limited by the fact that all of Site D and those areas of Site B exhibiting impacts are covered with concrete, and the Site B IRM area was backfilled with clean soil. The potential for trespassing is also limited because Site B and Site D are completely fenced, and Site D is regularly visited by Pfizer contracted security personnel.

Construction, excavation, and soil moving activities have the potential to generate fugitive dusts and also may allow volatilization of vapors from subsurface contaminated soil. Construction workers and other potential onsite and offsite receptors near or downwind from such activities may be exposed via the inhalation route of exposure.

OU-1 and the surrounding properties are supplied with public drinking water. As a result, there is no potential for exposure to site contaminants via ingestion of groundwater as a source of drinking water. Persons conducting excavation activities into the groundwater table have the

potential to encounter groundwater. In such instances there is potential for contact with dissolved CVOCs, and for volatilization of CVOCs and for potential exposure via the dermal adsorption and inhalation routes. It is assumed that adults performing such activities would not ingest groundwater.

There is potential for CVOCs in soil vapor to enter the indoor air of Site D buildings via soil vapor intrusion. If such circumstances were to occur, building occupants could be exposed to contaminants via the indoor air inhalation route of exposure.

6.0 CONCLUSIONS AND RECOMMENDATIONS

This section presents a summary of conclusions and recommendations based on the RI activities performed at OU-1.

6.1 Soils and Test Pits

Roux Associates has concluded the following for OU-1 soils and test pits:

- The nature and extent of soil impacts have been adequately categorized.
- CVOC exceedances of the Part 375 Protection of Groundwater Criteria are present underneath the north-central portion of Building 25A and the eastern portion of the main courtyard of Site D, consistent with a 1956 affidavit related to a permit to construct by the owner of a PCE reclamation business located at 66 Gerry Street (i.e., Building 25A).
- SVOC and metal exceedances of the Part 375 Restricted Residential Use Criteria are consistent with historic fill in urban environments and not due to a release.
- No further investigation of soil is warranted.
- Structures, tanks, sumps, etc. that could potentially act as a source of CVOCs were not discovered in test pits excavated in areas of known CVOC soil impacts.

6.2 Groundwater

Roux Associates has concluded the following for OU-1 groundwater:

- The nature and extent of groundwater impacts have been adequately categorized.
- A CVOC plume extends from the northern part of Site D to Site B. The primary CVOC constituents are PCE, TCE, cis-1,2-DCE, and VC.
- The source of the CVOC plume appears to be located underneath the north-central portion of Building 25A and the eastern portion of the main courtyard of Site D, consistent with a 1956 affidavit related to a permit to construct by the owner of a PCE reclamation business located at 66 Gerry Street (i.e., Building 25A).
- A silt/clay confining layer at approximately 30 to 35 ft bls limits vertical migration of the CVOC plume.
- Bacteria induced biodegradation is responsible for the breakdown of PCE to TCE, cis-1,2-DCE, and VC detected in the CVOC plume.
- There are no SVOC impacts.
- Metal impacts are limited to sodium and manganese.

- No further investigation of groundwater is warranted other than continuing semi-annual gauging and sampling of existing monitoring wells.

6.3 Soil Vapor

Roux Associates has concluded the following for OU-1 soil vapor:

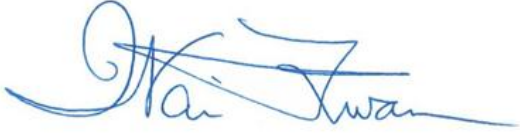
- The nature and extent of soil vapor impacts have been adequately assessed, evaluated, and categorized.
- CVOCs in soil vapor at Site D locations are consistent with CVOCs present in groundwater and soil.
- In response to the NYSDEC/NYSDOH's recent request to assess for a potential soil gas gradient, CVOC concentrations attenuate with distance from the northern part of Site D, where the highest soil and groundwater impacts are present; furthermore, there is no remarkable gradient westward beyond Harrison Avenue.
- No further investigation or remediation of soil vapor is warranted based on current site conditions and use.

6.4 Recommendations

Remedial action to address known CVOC soil impacts underneath Building 25A and the main courtyard of Site D is recommended. Removing or destroying these CVOC soil impacts will consequently improve groundwater and soil vapor quality. An evaluation of potential remedial alternatives and the recommended course of action will be presented in an Alternative Analysis Report/Remedial Action Work Plan.

Respectfully submitted,

ROUX ASSOCIATES, INC.

A handwritten signature in blue ink, appearing to read 'Wai Kwan', with a stylized, flowing script.

Wai Kwan, Ph.D., P.E.
Senior Engineer/
Project Manager

REMEDIAL ENGINEERING, P.C.

A handwritten signature in black ink, appearing to read 'Charles J. McGuckin', with a cursive script.

Charles J. McGuckin, P.E.
Principal Engineer

Remedial Investigation Report for Operable Unit 1

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**Table 1. Discrete Soil and Groundwater Sample Analysis Schedule, Operable Unit 1
Pfizer Inc Site B and Site D, Brooklyn, New York**

Sample Designation:	Sample Depth (ft bls):	<u>GROUNDWATER</u>	<u>SOIL</u>			
		VOCs	VOCs	TCL	TAL	TOC
GWS-OU1-1	8-13	*		*	*	*
	25-27		*			
	25-30	*				
GWS-OU1-2	25-26		*			
	25-30	*				
GWS-OU1-3	8-13	*				
	9-12			*	*	
	25-30	*				
	28-30		*			
GWS-OU1-4	25-30	*				
	26-27		*			
GWS-OU1-5	5-10	*				
	8-10		*			
	25-30	*	*			
GWS-OU1-6	8-13	*				
	9-11			*	*	
	13-15			*	*	
	20-22		*			
	20-25	*				
GWS-OU1-7	5-10	*				
	6-10		*			
	10-13		*			
	10-15	*				
GWS-OU1-8	8-13	*				
	10-15			*	*	
GWS-OU1-9	10-15	*				
	14-15			*	*	
	15-20	*				
	16-20		*			
	20-25	*				
	23-25		*			
	25-26		*			
	25-30	*				

**Table 1. Discrete Soil and Groundwater Sample Analysis Schedule, Operable Unit 1
Pfizer Inc Site B and Site D, Brooklyn, New York**

Sample Designation:	Sample Depth (ft bls):	<u>GROUNDWATER</u>	<u>SOIL</u>			
		VOCs	VOCs	TCL	TAL	TOC
GWS-OU1-10	15-18		*			
	15-20	*				
	20-22		*			
	20-25	*				
	25-30	*	*			
	45-47		*			
	45-50	*				
	65-70	*				
	68-70		*			
GWS-OU1-11	10-15	*				
	14-15			*	*	*
	15-16		*			
	15-20	*				
	20-22		*			
	20-25	*				
	25-30		*			
GWS-OU1-12	8-13	*				
	12-14			*	*	
GWS-OU1-13	10-15	*		*	*	
	23-28		*			
	25-28	*				
GWS-OU1-14	10-15	*				
	13-14			*	*	

VOC - Volatile organic compounds

TCL - Target Compound List

TAL - Target Analyte List

TOC - Total organic carbon

Table 2. Summary of Screened Intervals for Monitoring Wells, Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Well Number	Elevation of Grade (ft msl)¹	Elevation of Measuring Point (ft msl)¹	Screen Interval (ft below land surface)	Top of Screen (ft msl)¹	Base of Screen (ft msl)¹
MW-1R	10.39	10.04	10 - 20.0	0.39	-9.61
MW-3	13.64	13.37	12 - 22.0	1.64	-8.36
MW-5	13.12	12.98	10 - 20.0	3.12	-6.88
MW-6R	13.18	12.79	5 - 22.0	8.18	-8.82
MW-7	12.64	12.26	12 - 22.0	0.64	-9.36
MW-8	13.18	12.93	10 - 20.0	3.18	-6.82
MW-9	11.70	11.42	8 - 19.0	3.70	-7.30
MW-10	12.60	12.37	9.5 - 19.5	3.10	-6.90
MW-11	9.26	8.54	8 - 18.0	1.26	-8.74
MW-12	10.64	10.32	7 - 17.0	3.64	-6.36
MW-14	13.22	12.98	5 - 23.0	8.22	-9.78
MW-15	12.67	12.38	5 - 22.0	7.67	-9.33
MW-16	9.44	8.63	9.5 - 19.5	-0.06	-10.06
MW-17	12.72	11.78	12 - 22.0	0.72	-9.28
MW-18	9.71	9.43	8 - 20.0	1.71	-10.29
MW-19	13.13	12.62	5 - 20.0	8.13	-6.87
MW-20	12.48	12.30	5 - 20.0	7.48	-7.52
MW-D1	13.01	12.68	9 - 19.0	4.01	-5.99
MW-D1I	12.92	12.52	20 - 30.0	-7.08	-17.08
MW-D2	12.92	12.73	9 - 19.0	3.92	-6.08
MW-D2I	12.90	12.63	20 - 30.0	-7.10	-17.10
MW-D3	13.13	12.84	9 - 19.0	4.13	-5.87
MW-D3I	13.06	12.50	20 - 30.0	-6.94	-16.94
BMW-7	12.57	12.47	12 - 22.0	0.57	-9.43
BMW-7S	12.64	12.47	4.5 - 9.5	8.14	3.14

Note:

¹ Elevation data is reported in feet relative to mean sea level (ft msl) using the Borough of Brooklyn Datum.

Table 3. Summary of Water Level Data, Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

March 13-14, 2013				
Well Number	Elevation of Grade (ft msl) ¹	Elevation of Measuring Point (ft msl) ¹	Depth to Water (ft below measuring point)	Groundwater Elevation (ft msl) ¹
MW-1R	10.39	10.04	5.52	4.52
MW-3	13.64	13.37	8.79	4.58
MW-5	13.12	12.98	8.21	4.77
MW-6R	13.18	12.79	8.11	4.68
MW-7	12.64	12.26	7.43	4.83
MW-8	13.18	12.93	8.77	4.16
MW-9	11.7	11.42	6.46	4.96
MW-10	12.6	12.37	7.66	4.71
MW-11	9.26	8.54	4.09	4.45
MW-12	10.64	10.32	6.61	3.71
MW-14	13.22	12.98	8.51	4.47
MW-15	12.67	12.38	6.64	5.74
MW-16	9.44	8.63	4.73	3.90
MW-17	12.72	11.78	7.00	4.78
MW-18	9.71	9.43	5.50	3.93
MW-19	13.13	12.62	8.01	4.61
MW-20	12.48	12.30	7.56	4.74
MW-D1	13.01	12.68	7.91	4.77
MW-D1I	12.92	12.52	7.75	4.77
MW-D2	12.92	12.73	7.96	4.77
MW-D2I	12.9	12.63	7.80	4.83
MW-D3	13.13	12.84	7.16	5.68
MW-D3I	13.06	12.50	7.76	4.74

Note:

¹ Elevation data is reported in feet relative to mean sea level (ft msl) using the Borough of Brooklyn Datum.

Table 4. Summary of Volatile Organic Compounds Detected in Soil
Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in mg/kg)	NYSDEC	Sample Designation:	GWS-OU1-1	GWS-OU1-1 DUP	GWS-OU1-1	GWS-OU1-2	GWS-OU1-2 DUP	GWS-OU1-3
	Part 375	Sample Date:	6/6/2012	6/6/2012	6/6/2012	6/6/2012	6/6/2012	6/4/2012
	Protection of	Sample Depth (ft bls):	8-13	8-13	25-27	25-26	25-26	9-12
	Groundwater							
1,1,1-Trichloroethane	0.68		0.0028 U	0.0026 U	0.0025 U	0.0025 U	0.0023 U	0.11 U
1,1,2,2-Tetrachloroethane	--		0.0028 U	0.0026 U	0.0025 U	0.0025 U	0.0023 U	0.085 UJV
1,1,2-Trichloroethane	--		0.0028 U	0.0026 U	0.0025 U	0.0025 U	0.0023 U	0.11 U
1,1-Dichloroethane	0.27		0.0028 U	0.0026 U	0.0025 U	0.0025 U	0.0023 U	0.11 U
1,1-Dichloroethene	0.33		0.0028 U	0.0026 U	0.0025 U	0.0025 U	0.0023 U	0.11 U
1,2,3-Trichlorobenzene	--		0.0028 U	0.0026 U	NA	NA	NA	0.11 U
1,2,3-Trichloropropane	--		NA	NA	0.0025 U	0.0025 U	0.0023 U	NA
1,2,4-Trichlorobenzene	--		0.0028 U	0.0026 U	NA	NA	NA	0.11 U
1,2,4-Trimethylbenzene	3.6		NA	NA	0.0013 U	0.0014	0.0012 U	NA
1,2-Dibromoethane	--		0.0028 U	0.0026 U	NA	NA	NA	0.11 U
1,2-Dichlorobenzene	1.1		0.0028 UJV	0.0026 UJV	0.0025 UJV	0.0025 UJV	0.0023 UJV	0.11 U
1,2-Dichloroethane	0.02		0.0028 U	0.0026 U	0.0025 U	0.0025 U	0.0023 U	0.057 U
1,2-Dichloropropane	--		0.0028 U	0.0026 U	0.0025 U	0.0025 U	0.0023 U	0.11 U
1,3,5-Trimethylbenzene	8.4		NA	NA	0.0013 U	0.0012 U	0.0012 U	NA
1,3-Dichlorobenzene	2.4		0.0028 U	0.0026 U	0.0025 U	0.0025 U	0.0023 U	0.11 UJV
1,3-Dichloropropane	--		NA	NA	0.0025 U	0.0025 U	0.0023 U	NA
1,4-Dichlorobenzene	1.8		0.0028 UJV	0.0026 UJV	0.0025 UJV	0.0025 UJV	0.0023 UJV	0.11 U
1,4-Dioxane	0.1		0.14 RV	0.13 RV	0.13 RV	0.12 RV	0.12 RV	5.7 RV
2-Butanone (MEK)	0.12		0.043	0.034	0.0025 U	0.0025 U	0.0023 U	0.11 U
2-Chloroethyl vinyl ether	--		NA	NA	0.0025 U	0.0025 U	0.0023 U	NA
2-Hexanone	--		0.0028 U	0.0026 U	0.0025 U	0.0025 U	0.0023 U	0.11 UJV
4-Methyl-2-pentanone (MIBK)	--		0.0028 U	0.0026 U	0.0025 U	0.0025 U	0.0023 U	0.11 UJV
Acetone	0.05		0.014 UJV	0.013 UJV	0.013 UJV	0.012 UJV	0.012 UJV	1.1 UJV
Acrolein	--		NA	NA	0.013 UJV	0.012 UJV	0.012 UJV	NA
Acrylonitrile	--		NA	NA	0.0063 U	0.0062 U	0.0058 U	NA
Benzene	0.06		0.0014 U	0.0013 U	0.0013 U	0.0012 U	0.0012 U	0.057 U
Bromochloromethane	--		0.0028 U	0.0026 U	NA	NA	NA	0.11 U
Bromodichloromethane	--		0.0028 U	0.0026 U	0.0025 U	0.0025 U	0.0023 U	0.11 U
Bromoform	--		0.0028 UJV	0.0026 UJV	0.0025 UJV	0.0025 UJV	0.0023 UJV	0.11 UJV
Bromomethane	--		0.0028 U	0.0026 U	0.0025 U	0.0025 U	0.0023 U	0.11 U
Carbon disulfide	--		0.0028 U	0.0026 U	0.0025 U	0.0025 U	0.0023 U	0.11 UJV
Carbon tetrachloride	0.76		0.0028 U	0.0026 U	0.0025 U	0.0025 U	0.0023 U	0.11 UJV
Chlorobenzene	1.1		0.0028 U	0.0026 U	0.0025 U	0.0025 U	0.0033	0.11 UJV
Chloroethane	--		0.0028 U	0.0026 U	0.0025 U	0.0025 U	0.0023 U	0.11 U
Chloroform	0.37		0.0028 U	0.0026 U	0.0025 U	0.0025 U	0.0023 U	0.11 U
Chloromethane	--		0.0028 U	0.0026 U	0.0025 U	0.0025 U	0.0023 U	0.11 U
cis-1,2-Dichloroethene	0.25		0.0033	0.0026 U	0.16	0.066 JV	0.0081 JV	0.11 U
cis-1,3-Dichloropropene	--		0.0028 U	0.0026 U	0.0025 U	0.0025 U	0.0023 U	0.11 UJV
Cyclohexane	--		0.0028 U	0.0026 U	NA	NA	NA	0.11 UJV
Dibromochloromethane	--		0.0028 U	0.0026 U	0.0025 U	0.0025 U	0.0023 U	0.11 UJV
Dibromochloropropane	--		0.0028 UJV	0.0026 UJV	NA	NA	NA	0.11 UJV
Dichlorodifluoromethane	--		0.0028 U	0.0026 U	0.0025 U	0.0025 U	0.0023 U	0.11 UJV

Table 4. Summary of Volatile Organic Compounds Detected in Soil
Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in mg/kg)	NYSDEC							
	Part 375	Sample Designation:	GWS-OU1-1	GWS-OU1-1 DUP	GWS-OU1-1	GWS-OU1-2	GWS-OU1-2 DUP	GWS-OU1-3
	Protection of	Sample Date:	6/6/2012	6/6/2012	6/6/2012	6/6/2012	6/6/2012	6/4/2012
	Groundwater	Sample Depth (ft bls):	8-13	8-13	25-27	25-26	25-26	9-12
Ethylbenzene	1		0.0014 U	0.0013 U	0.0013 U	0.0012 U	0.0012 U	0.11 UJV
Freon 113	--		0.0028 U	0.0026 U	0.0025 U	0.0025 U	0.0023 U	0.11 UJV
Isopropylbenzene	--		0.0014 U	0.0013 U	0.0013 U	0.0012 U	0.0012 U	0.22 JV
m+p-Xylene	--		0.0014 UJV	0.0013 UJV	0.0013 UJV	0.0012 UJV	0.0012 UJV	0.11 U
Methyl acetate	--		0.0028 U	0.0026 U	NA	NA	NA	0.11 U
Methylcyclohexane	--		0.0028 U	0.0026 U	NA	NA	NA	1.8 JV
Methylene chloride	0.05		0.0028 U	0.0026 U	0.0025 U	0.0025	0.0023 U	0.11 U
MTBE	0.93		0.0014 U	0.0013 U	0.0013 U	0.0012 U	0.0012 U	0.057 UJV
n-Butylbenzene	12		NA	NA	0.0013 U	0.0012 U	0.0012 U	NA
n-Propylbenzene	3.9		NA	NA	0.0013 U	0.0012 U	0.0012 U	NA
o-Xylene	--		0.0014 UJV	0.0013 UJV	0.0013 UJV	0.0012 UJV	0.0012 UJV	0.11 U
p-Isopropyltoluene	--		NA	NA	0.0013 U	0.0012 U	0.0012 U	NA
sec-Butylbenzene	11		NA	NA	0.0013 U	0.0012 U	0.0012 U	NA
Styrene	--		0.0028 U	0.0026 U	0.0025 U	0.0025 U	0.0023 U	0.11 U
t-Butyl Alcohol	--		NA	NA	0.013 UJV	0.012 UJV	0.012 UJV	NA
tert-Butylbenzene	5.9		NA	NA	0.0013 U	0.0012 U	0.0012 U	NA
Tetrachloroethene	1.3		0.0028 U	0.0026 U	0.02	0.092 JV	0.025 JV	0.11 UJV
Toluene	0.7		0.0014 U	0.0013 U	0.0013 U	0.0012 U	0.0012 U	0.11 U
trans-1,2-Dichloroethene	0.19		0.0028 U	0.0026 U	0.0025 U	0.0025 U	0.0023 U	0.11 U
trans-1,3-Dichloropropene	--		0.0028 U	0.0026 U	0.0025 U	0.0025 U	0.0023 U	0.11 U
Trichloroethene	0.47		0.0028 U	0.0026 U	0.0086	0.057 JV	0.012 JV	0.11 U
Trichlorofluoromethane	--		0.0028 U	0.0026 U	0.0025 U	0.0025 U	0.0023 U	0.11 UJV
Vinyl chloride	0.02		0.0028 U	0.0026 U	0.0025 U	0.0025 U	0.0023 U	0.11 NJV
Xylenes (total)	1.6		0.0014 U	0.0013 U	0.0013 U	0.0012 U	0.0012 U	0.11 U

J - Estimated value

U - Indicates that the compound was analyzed for but not detected

DUP - Duplicate sample

mg/kg - Milligrams per kilogram

ft bls - Feet below land surface

NYSDEC - New York State Department of Environmental Conservation

-- No NYSDEC Part 375 Protection of Groundwater Criteria available

Part 375 - 6 NYCRR Part 375

Bold - Concentration exceeds NYSDEC Part 375 Protection of Groundwater Criteria

NA - Compound was not analyzed by laboratory

V - Value altered or qualifier added during data validation

R - Sample results rejected by validator

UJ - Analyte was not detected. Associated reported quantitation limit is an estimate

NJ - Detection is tentative in identification and estimated in value

Table 4. Summary of Volatile Organic Compounds Detected in Soil
Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in mg/kg)	NYSDEC Part 375 Protection of Groundwater	Sample Designation: Sample Date: Sample Depth (ft bls):	GWS-OU1-3 DUP	GWS-OU1-3	GWS-OU1-4	GWS-OU1-5	GWS-OU1-5	GWS-OU1-6
			6/4/2012	6/4/2012	6/27/2012	6/28/2012	6/28/2012	6/29/2012
			9-12	28-30	26-27	8-10	25-30	9-11
1,1,1-Trichloroethane	0.68		0.0022 U	0.0023 U	0.0023 U	0.12 U	0.0023 U	0.0029 U
1,1,2,2-Tetrachloroethane	--		0.0022 UJV	0.0023 U	0.0023 U	0.12 U	0.0023 U	0.0029 U
1,1,2-Trichloroethane	--		0.0022 U	0.0023 U	0.0023 U	0.12 U	0.0023 U	0.0029 U
1,1-Dichloroethane	0.27		0.0022 U	0.0023 U	0.0023 U	0.12 U	0.0023 U	0.0029 U
1,1-Dichloroethene	0.33		0.0022 U	0.0023 U	0.0023 U	0.12 U	0.0023 U	0.0029 U
1,2,3-Trichlorobenzene	--		0.0022 U	NA	NA	NA	NA	0.0029 U
1,2,3-Trichloropropane	--		NA	0.0023 U	0.0023 U	0.12 U	0.0023 U	NA
1,2,4-Trichlorobenzene	--		0.0022 U	NA	NA	NA	NA	0.0029 U
1,2,4-Trimethylbenzene	3.6		NA	0.0011 U	0.0011 U	0.12 U	0.0012	NA
1,2-Dibromoethane	--		0.0022 U	NA	NA	NA	NA	0.0029 U
1,2-Dichlorobenzene	1.1		0.0022 U	0.0023 U	0.0023 UJV	0.12 U	0.0023 U	0.0029 U
1,2-Dichloroethane	0.02		0.0022 U	0.0023 U	0.0023 U	0.059 U	0.0023 U	0.0029 U
1,2-Dichloropropane	--		0.0022 U	0.0023 U	0.0023 U	0.12 U	0.0023 U	0.0029 U
1,3,5-Trimethylbenzene	8.4		NA	0.0011 U	0.0011 U	0.12 U	0.0012 U	NA
1,3-Dichlorobenzene	2.4		0.0022 U	0.0023 U	0.0023 UJV	0.12 U	0.0023 U	0.0029 U
1,3-Dichloropropane	--		NA	0.0023 U	0.0023 U	0.12 U	0.0023 U	NA
1,4-Dichlorobenzene	1.8		0.0022 U	0.0023 U	0.0023 UJV	0.12 U	0.0023 U	0.0029 U
1,4-Dioxane	0.1		0.11 RV	0.11 RV	0.11 RV	5.9 RV	0.12 RV	0.15 RV
2-Butanone (MEK)	0.12		0.0022 U	0.0023 U	0.0023 U	0.12 UJV	0.0023 U	0.0029 U
2-Chloroethyl vinyl ether	--		NA	0.0023 U	0.0023 U	0.12 U	0.0023 U	NA
2-Hexanone	--		0.0022 UJV	0.0023 U	0.0023 U	0.12 UJV	0.0023 U	0.0029 U
4-Methyl-2-pentanone (MIBK)	--		0.0022 U	0.0023 U	0.0023 U	0.12 UJV	0.0023 U	0.0029 U
Acetone	0.05		0.063 NJV	0.026 JV	0.011 UJV	1.2 U	0.11	0.015 U
Acrolein	--		NA	0.011 UJV	0.011 UJV	0.59 UJV	0.012 UJV	NA
Acrylonitrile	--		NA	0.0057 U	0.0057 UJV	0.24 UJV	0.0058 U	NA
Benzene	0.06		0.0011 U	0.0011 U	0.0011 U	0.059 U	0.0012 U	0.0015 U
Bromochloromethane	--		0.0022 U	NA	NA	NA	NA	0.0029 U
Bromodichloromethane	--		0.0022 U	0.0023 U	0.0023 U	0.12 U	0.0023 U	0.0029 U
Bromoform	--		0.0022 U	0.0023 U	0.0023 U	0.12 UJV	0.0023 U	0.0029 U
Bromomethane	--		0.0022 U	0.0023 U	0.0023 U	0.12 U	0.0023 U	0.0029 U
Carbon disulfide	--		0.0041 JV	0.0023 U	0.0023 U	0.12 UJV	0.0023 U	0.0029 U
Carbon tetrachloride	0.76		0.0022 U	0.0023 U	0.0023 U	0.12 U	0.0023 U	0.0029 U
Chlorobenzene	1.1		0.0022 U	0.0023 U	0.0023 U	0.12 U	0.0023 U	0.0029 U
Chloroethane	--		0.0022 U	0.0023 U	0.0023 U	0.12 U	0.0023 U	0.0029 U
Chloroform	0.37		0.0022 U	0.0023 U	0.0023 U	0.12 U	0.0023 U	0.0029 U
Chloromethane	--		0.0022 U	0.0023 U	0.0023 U	0.12 U	0.0023 U	0.0029 U
cis-1,2-Dichloroethene	0.25		0.0022 U	0.0024	0.0023 U	6	0.0023 U	0.0085
cis-1,3-Dichloropropene	--		0.0022 UJV	0.0023 U	0.0023 U	0.12 U	0.0023 U	0.0029 U
Cyclohexane	--		0.25 UV	NA	NA	NA	NA	0.0029 U
Dibromochloromethane	--		0.0022 U	0.0023 U	0.0023 U	0.12 U	0.0023 U	0.0029 U
Dibromochloropropane	--		0.0022 U	NA	NA	NA	NA	0.0029 U
Dichlorodifluoromethane	--		0.0022 UJV	0.0023 U	0.0023 U	0.12 U	0.0023 U	0.0029 U

Table 4. Summary of Volatile Organic Compounds Detected in Soil
Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

	NYSDEC							
	Part 375	Sample Designation:	GWS-OU1-3 DUP	GWS-OU1-3	GWS-OU1-4	GWS-OU1-5	GWS-OU1-5	GWS-OU1-6
Parameter	Protection of	Sample Date:	6/4/2012	6/4/2012	6/27/2012	6/28/2012	6/28/2012	6/29/2012
(Concentrations in mg/kg)	Groundwater	Sample Depth (ft bls):	9-12	28-30	26-27	8-10	25-30	9-11
Ethylbenzene	1		0.027 JV	0.0011 U	0.0011 U	0.12 U	0.0012 U	0.0015 U
Freon 113	--		0.0022 U	0.0023 U	0.0023 U	0.12 U	0.0023 U	0.0029 U
Isopropylbenzene	--		0.096 JV	0.0011 U	0.0011 U	0.12 U	0.0012 U	0.0015 U
m+p-Xylene	--		0.0011 U	0.0011 U	0.0011 U	0.12 U	0.0012 U	0.0015 U
Methyl acetate	--		0.0022 U	NA	NA	NA	NA	0.0029 U
Methylcyclohexane	--		0.52 JV	NA	NA	NA	NA	0.0029 U
Methylene chloride	0.05		0.0022 U	0.0023 U	0.0023 U	0.12 U	0.015	0.055
MTBE	0.93		0.0011 U	0.0011 U	0.0011 U	0.059 UJV	0.0012 U	0.0015 U
n-Butylbenzene	12		NA	0.0011 U	0.0011 U	0.12 U	0.0012 U	NA
n-Propylbenzene	3.9		NA	0.0011 U	0.0011 U	0.12 U	0.0012 U	NA
o-Xylene	--		0.0011 U	0.0011 U	0.0011 U	0.12 U	0.0012 U	0.0015 U
p-Isopropyltoluene	--		NA	0.0011 U	0.0011 U	0.12 U	0.0012 U	NA
sec-Butylbenzene	11		NA	0.0011 U	0.0011 U	0.12 U	0.0012 U	NA
Styrene	--		0.0022 U	0.0023 U	0.0023 U	0.12 U	0.0023 U	0.0029 U
t-Butyl Alcohol	--		NA	0.011 UJV	0.011 UJV	0.59 UJV	0.012 UJV	NA
tert-Butylbenzene	5.9		NA	0.0011 U	0.0011 U	0.12 U	0.0012 U	NA
Tetrachloroethene	1.3		0.0022 U	0.0023 U	0.0044	8.6	0.0023 U	0.0051
Toluene	0.7		0.0011 U	0.0011 U	0.0011 U	0.12 U	0.0012 U	0.0015 U
trans-1,2-Dichloroethene	0.19		0.0022 U	0.0023 U	0.0023 U	0.12 U	0.0023 U	0.0029 U
trans-1,3-Dichloropropene	--		0.0022 U	0.0023 U	0.0023 U	0.12 UJV	0.0023 U	0.0029 U
Trichloroethene	0.47		0.0022 U	0.0023 U	0.0023 U	4.2	0.0023 U	0.0029 U
Trichlorofluoromethane	--		0.0022 U	0.0023 U	0.0023 U	0.12 U	0.0023 U	0.0029 U
Vinyl chloride	0.02		0.0022 U	0.0023 U	0.0023 U	0.12 U	0.0023 U	0.048
Xylenes (total)	1.6		0.0011 U	0.0011 U	0.0011 U	0.12 U	0.0012 U	0.0015 U

J - Estimated value

U - Indicates that the compound was analyzed for but not detected

DUP - Duplicate sample

mg/kg - Milligrams per kilogram

ft bls - Feet below land surface

NYSDEC - New York State Department of Environmental Conservation

-- No NYSDEC Part 375 Protection of Groundwater Criteria available

Part 375 - 6 NYCRR Part 375

Bold - Concentration exceeds NYSDEC Part 375 Protection of Groundwater Criteria

NA - Compound was not analyzed by laboratory

V - Value altered or qualifier added during data validation

R - Sample results rejected by validator

UJ - Analyte was not detected. Associated reported quantitation limit is an estimate

NJ - Detection is tentative in identification and estimated in value

Table 4. Summary of Volatile Organic Compounds Detected in Soil
Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in mg/kg)	NYSDEC Part 375 Protection of Groundwater	Sample Designation: Sample Date: Sample Depth (ft bls):	GWS-OU1-6	GWS-OU1-6	GWS-OU1-7	GWS-OU1-7	GWS-OU1-7 DUP	GWS-OU1-8
			6/29/2012	6/29/2012	6/28/2012	6/28/2012	6/28/2012	6/29/2012
			13-15	20-22	6-10	10-13	10-13	10-15
1,1,1-Trichloroethane	0.68		0.0023 U	0.0025 U	0.12 U	0.13 U	0.12 U	0.0025 U
1,1,2,2-Tetrachloroethane	--		0.0023 U	0.0025 U	0.12 U	0.13 U	0.12 U	0.0025 U
1,1,2-Trichloroethane	--		0.0023 U	0.0025 U	0.12 U	0.13 U	0.12 U	0.0025 U
1,1-Dichloroethane	0.27		0.0023 U	0.0025 U	0.12 U	0.13 U	0.12 U	0.0025 U
1,1-Dichloroethene	0.33		0.0023 U	0.0025 U	0.12 U	0.13 U	0.12 U	0.0025 U
1,2,3-Trichlorobenzene	--		0.0023 U	NA	NA	NA	NA	0.0025 U
1,2,3-Trichloropropane	--		NA	0.0025 U	0.12 U	0.13 U	0.12 U	NA
1,2,4-Trichlorobenzene	--		0.0023 U	NA	NA	NA	NA	0.0025 U
1,2,4-Trimethylbenzene	3.6		NA	0.0013 U	0.12 U	0.25	0.21	NA
1,2-Dibromoethane	--		0.0023 U	NA	NA	NA	NA	0.0025 U
1,2-Dichlorobenzene	1.1		0.0023 U	0.0025 U	0.12 U	0.13 U	0.12 U	0.0025 U
1,2-Dichloroethane	0.02		0.0023 U	0.0025 U	0.061 U	0.065 U	0.062 U	0.0025 U
1,2-Dichloropropane	--		0.0023 U	0.0025 U	0.12 U	0.13 U	0.12 U	0.0025 U
1,3,5-Trimethylbenzene	8.4		NA	0.0013 U	0.12 U	0.16 NJV	0.13	NA
1,3-Dichlorobenzene	2.4		0.0023 U	0.0025 U	0.12 U	0.13 U	0.12 U	0.0025 U
1,3-Dichloropropane	--		NA	0.0025 U	0.12 U	0.13 U	0.12 U	NA
1,4-Dichlorobenzene	1.8		0.0023 U	0.0025 U	0.12 U	0.13 U	0.12 U	0.0025 U
1,4-Dioxane	0.1		0.12 RV	0.13 RV	6.1 RV	6.5 RV	6.2 RV	0.12 RV
2-Butanone (MEK)	0.12		0.0023 U	0.0025 U	0.12 UJV	0.13 UJV	0.12 UJV	0.0025 U
2-Chloroethyl vinyl ether	--		NA	0.0025 U	0.12 U	0.13 U	0.12 U	NA
2-Hexanone	--		0.0023 U	0.0025 U	0.12 UJV	0.13 UJV	0.12 UJV	0.0025 UJV
4-Methyl-2-pentanone (MIBK)	--		0.0023 U	0.0025 U	0.12 UJV	0.13 UJV	0.12 UJV	0.0025 U
Acetone	0.05		0.072	0.013 U	1.2 U	1.3 U	1.2 U	0.012 UJV
Acrolein	--		NA	0.013 UJV	0.61 UJV	0.65 UJV	0.62 UJV	NA
Acrylonitrile	--		NA	0.0063 U	0.25 UJV	0.26 UJV	0.25 UJV	NA
Benzene	0.06		0.0012 U	0.0013 U	0.061 U	0.065 U	0.062 U	0.0012 U
Bromochloromethane	--		0.0023 U	NA	NA	NA	NA	0.0025 U
Bromodichloromethane	--		0.0023 U	0.0025 U	0.12 U	0.13 U	0.12 U	0.0025 U
Bromoform	--		0.0023 U	0.0025 U	0.12 UJV	0.13 UJV	0.12 UJV	0.0025 U
Bromomethane	--		0.0023 U	0.0025 U	0.12 U	0.13 U	0.12 U	0.0025 U
Carbon disulfide	--		0.0023 U	0.0025 U	0.12 UJV	0.13 UJV	0.12 UJV	0.003
Carbon tetrachloride	0.76		0.0023 U	0.0025 U	0.12 U	0.13 U	0.12 U	0.0025 U
Chlorobenzene	1.1		0.0023 U	0.0025 U	0.12 U	0.13 U	0.12 U	0.0025 U
Chloroethane	--		0.0023 U	0.0025 U	0.12 U	0.13 U	0.12 U	0.0025 U
Chloroform	0.37		0.0023 U	0.0025 U	0.12 U	0.13 U	0.12 U	0.0025 U
Chloromethane	--		0.0023 U	0.0025 U	0.12 U	0.13 U	0.12 U	0.0025 U
cis-1,2-Dichloroethene	0.25		0.029	0.0099	12	8.5	5.9	4.5
cis-1,3-Dichloropropene	--		0.0023 U	0.0025 U	0.12 U	0.13 U	0.12 U	0.0025 U
Cyclohexane	--		0.0023 U	NA	NA	NA	NA	0.0025 U
Dibromochloromethane	--		0.0023 U	0.0025 U	0.12 U	0.13 U	0.12 U	0.0025 U
Dibromochloropropane	--		0.0023 U	NA	NA	NA	NA	0.0025 U
Dichlorodifluoromethane	--		0.0023 U	0.0025 U	0.12 U	0.13 U	0.12 U	0.0025 U

Table 4. Summary of Volatile Organic Compounds Detected in Soil
Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in mg/kg)	NYSDEC	Sample Designation:	GWS-OU1-6	GWS-OU1-6	GWS-OU1-7	GWS-OU1-7	GWS-OU1-7 DUP	GWS-OU1-8
	Part 375	Sample Date:	6/29/2012	6/29/2012	6/28/2012	6/28/2012	6/28/2012	6/29/2012
	Protection of	Sample Depth (ft bls):	13-15	20-22	6-10	10-13	10-13	10-15
	Groundwater							
Ethylbenzene	1		0.0012 U	0.0013 U	0.12 U	0.13 U	0.12 U	0.0012 U
Freon 113	--		0.0023 U	0.0025 U	0.12 U	0.13 U	0.12 U	0.0025 U
Isopropylbenzene	--		0.0012 U	0.0013 U	0.12 U	0.13 U	0.12 U	0.0012 U
m+p-Xylene	--		0.0012 U	0.0013 U	0.12 U	0.13 U	0.12 U	0.0012 U
Methyl acetate	--		0.0023 U	NA	NA	NA	NA	0.0025 U
Methylcyclohexane	--		0.0023 U	NA	NA	NA	NA	0.0025 U
Methylene chloride	0.05		0.0096	0.017	0.12 U	0.13 U	0.12 U	0.0025 U
MTBE	0.93		0.0012 U	0.0013 U	0.061 UJV	0.065 UJV	0.062 UJV	0.0012 U
n-Butylbenzene	12		NA	0.0013 U	0.12 U	0.13 U	0.12 U	NA
n-Propylbenzene	3.9		NA	0.0013 U	0.12 U	0.13 U	0.12 U	NA
o-Xylene	--		0.0012 U	0.0013 U	0.12 U	0.13 U	0.12 U	0.0012 U
p-Isopropyltoluene	--		NA	0.0013 U	0.12 U	0.13 U	0.12 U	NA
sec-Butylbenzene	11		NA	0.0013 U	0.12 U	0.13 U	0.12 U	NA
Styrene	--		0.0023 U	0.0025 U	0.12 U	0.13 U	0.12 U	0.0025 UJV
t-Butyl Alcohol	--		NA	0.013 UJV	0.61 UJV	0.65 UJV	0.62 UJV	NA
tert-Butylbenzene	5.9		NA	0.0013 U	0.12 U	0.13 U	0.12 U	NA
Tetrachloroethene	1.3		0.0023 U	0.24 JV	6.7	1.5 JV	0.24 JV	0.0056
Toluene	0.7		0.0012 U	0.0013 U	0.12 U	0.13 U	0.12 U	0.0012 U
trans-1,2-Dichloroethene	0.19		0.0023 U	0.0025 U	0.12 U	0.13 U	0.12 U	0.015
trans-1,3-Dichloropropene	--		0.0023 U	0.0025 U	0.12 UJV	0.13 UJV	0.12 UJV	0.0025 UJV
Trichloroethene	0.47		0.0023 U	0.038 JV	0.51	0.45 JV	0.12 UJV	0.0025 U
Trichlorofluoromethane	--		0.0023 U	0.0025 U	0.12 U	0.13 U	0.12 U	0.0025 U
Vinyl chloride	0.02		0.0023 U	0.0025 U	0.12 U	0.16	0.15	0.014
Xylenes (total)	1.6		0.0012 U	0.0013 U	0.12 U	0.13 U	0.12 U	0.0012 U

J - Estimated value

U - Indicates that the compound was analyzed for but not detected

DUP - Duplicate sample

mg/kg - Milligrams per kilogram

ft bls - Feet below land surface

NYSDEC - New York State Department of Environmental Conservation

-- No NYSDEC Part 375 Protection of Groundwater Criteria available

Part 375 - 6 NYCRR Part 375

Bold - Concentration exceeds NYSDEC Part 375 Protection of Groundwater Criteria

NA - Compound was not analyzed by laboratory

V - Value altered or qualifier added during data validation

R - Sample results rejected by validator

UJ - Analyte was not detected. Associated reported quantitation limit is an estimate

NJ - Detection is tentative in identification and estimated in value

Table 4. Summary of Volatile Organic Compounds Detected in Soil
Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in mg/kg)	NYSDEC Part 375 Protection of Groundwater	Sample Designation: GWS-OU1-9 GWS-OU1-9 GWS-OU1-9 GWS-OU1-9 GWS-OU1-10 GWS-OU1-10						
		Sample Date: 7/3/2012 7/3/2012 7/3/2012 7/3/2012 5/30/2012 5/30/2012						
		Sample Depth (ft bls): 14-15 16-20 23-25 25-26 15-18 20-22						
1,1,1-Trichloroethane	0.68	0.0023 U	0.0022 U	0.0024 U	0.0024 U	0.0023 U	0.0024 U	
1,1,2,2-Tetrachloroethane	--	0.0023 U	0.0022 U	0.0024 U	0.0024 U	0.0023 U	0.0024 U	
1,1,2-Trichloroethane	--	0.0023 U	0.0022 U	0.0024 U	0.0024 U	0.0023 U	0.0024 U	
1,1-Dichloroethane	0.27	0.0023 U	0.0022 U	0.0024 U	0.0024 U	0.0023 U	0.0024 U	
1,1-Dichloroethene	0.33	0.0023 U	0.0022 U	0.0024 U	0.0024 U	0.0023 U	0.0024 U	
1,2,3-Trichlorobenzene	--	0.0023 U	NA	NA	NA	NA	NA	
1,2,3-Trichloropropane	--	NA	0.0022 U	0.0024 U	0.0024 U	0.0023 U	0.0024 U	
1,2,4-Trichlorobenzene	--	0.0023 U	NA	NA	NA	NA	NA	
1,2,4-Trimethylbenzene	3.6	NA	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	
1,2-Dibromoethane	--	0.0023 U	NA	NA	NA	NA	NA	
1,2-Dichlorobenzene	1.1	0.0023 U	0.0022 U	0.0024 U	0.0024 U	0.0023 U	0.0024 U	
1,2-Dichloroethane	0.02	0.0023 U	0.0022 U	0.0024 U	0.0024 U	0.0023 U	0.0024 U	
1,2-Dichloropropane	--	0.0023 U	0.0022 U	0.0024 U	0.0024 U	0.0023 U	0.0024 U	
1,3,5-Trimethylbenzene	8.4	NA	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	
1,3-Dichlorobenzene	2.4	0.0023 U	0.0022 U	0.0024 U	0.0024 U	0.0023 U	0.0024 U	
1,3-Dichloropropane	--	NA	0.0022 U	0.0024 U	0.0024 U	0.0023 U	0.0024 U	
1,4-Dichlorobenzene	1.8	0.0023 U	0.0022 U	0.0024 U	0.0024 U	0.0023 U	0.0024 U	
1,4-Dioxane	0.1	0.11 RV	0.11 RV	0.12 RV	0.12 RV	0.12 RV	0.12 RV	
2-Butanone (MEK)	0.12	0.0023 UJV	0.0022 UJV	0.0024 UJV	0.0024 UJV	0.0023 U	0.0024 U	
2-Chloroethyl vinyl ether	--	NA	0.0022 U	0.0024 U	0.0024 U	0.0023 U	0.0024 U	
2-Hexanone	--	0.0023 U	0.0022 U	0.0024 U	0.0024 U	0.0023 U	0.0024 U	
4-Methyl-2-pentanone (MIBK)	--	0.0023 U	0.0022 U	0.0024 U	0.0024 U	0.0023 U	0.0024 U	
Acetone	0.05	0.064	0.011 U	0.012 U	0.012 U	0.012 UJV	0.012 UJV	
Acrolein	--	NA	0.011 UJV	0.012 UJV	0.012 UJV	0.012 UJV	0.012 UJV	
Acrylonitrile	--	NA	0.0056 U	0.006 U	0.0059 U	0.0058 U	0.0059 U	
Benzene	0.06	0.0011 U	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	
Bromochloromethane	--	0.0023 U	NA	NA	NA	NA	NA	
Bromodichloromethane	--	0.0023 U	0.0022 U	0.0024 U	0.0024 U	0.0023 U	0.0024 U	
Bromoform	--	0.0023 U	0.0022 U	0.0024 U	0.0024 U	0.0023 U	0.0024 U	
Bromomethane	--	0.0023 U	0.0022 U	0.0024 U	0.0024 U	0.0023 U	0.0024 U	
Carbon disulfide	--	0.0023 U	0.0022 U	0.0024 U	0.0024 U	0.0023 U	0.0024 U	
Carbon tetrachloride	0.76	0.0023 U	0.0022 U	0.0024 U	0.0024 U	0.0023 U	0.0024 U	
Chlorobenzene	1.1	0.0023 U	0.0022 U	0.0024 U	0.0024 U	0.0023 U	0.0024 U	
Chloroethane	--	0.0023 U	0.0022 U	0.0024 U	0.0024 U	0.0023 U	0.0024 U	
Chloroform	0.37	0.0023 U	0.0022 U	0.0024 U	0.0024 U	0.0023 U	0.0024 U	
Chloromethane	--	0.0023 U	0.0022 U	0.0024 U	0.0024 U	0.0023 U	0.0024 U	
cis-1,2-Dichloroethene	0.25	0.0039	0.011	0.0024 U	0.0024 U	0.0023 U	0.0024 U	
cis-1,3-Dichloropropene	--	0.0023 U	0.0022 U	0.0024 U	0.0024 U	0.0023 U	0.0024 U	
Cyclohexane	--	0.0023 U	NA	NA	NA	NA	NA	
Dibromochloromethane	--	0.0023 U	0.0022 U	0.0024 U	0.0024 U	0.0023 U	0.0024 U	
Dibromochloropropane	--	0.0023 UJV	NA	NA	NA	NA	NA	
Dichlorodifluoromethane	--	0.0023 U	0.0022 U	0.0024 U	0.0024 U	0.0023 U	0.0024 U	

Table 4. Summary of Volatile Organic Compounds Detected in Soil
Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in mg/kg)	NYSDEC	Sample Designation: GWS-OU1-9 GWS-OU1-9 GWS-OU1-9 GWS-OU1-9 GWS-OU1-10 GWS-OU1-10						
	Part 375	Sample Date: 7/3/2012 7/3/2012 7/3/2012 7/3/2012 5/30/2012 5/30/2012						
	Protection of	Sample Depth (ft bls): 14-15 16-20 23-25 25-26 15-18 20-22						
	Groundwater							
Ethylbenzene	1	0.0011 U	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U
Freon 113	--	0.0023 U	0.0022 U	0.0024 U	0.0024 U	0.0023 U	0.0024 U	0.0024 U
Isopropylbenzene	--	0.0011 U	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U
m+p-Xylene	--	0.0011 U	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U
Methyl acetate	--	0.0023 U	NA	NA	NA	NA	NA	NA
Methylcyclohexane	--	0.0023 U	NA	NA	NA	NA	NA	NA
Methylene chloride	0.05	0.0023 U	0.0022 U	0.0024 U	0.0024 U	0.0023 U	0.0024 U	0.0024 U
MTBE	0.93	0.0011 U	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U
n-Butylbenzene	12	NA	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U
n-Propylbenzene	3.9	NA	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U
o-Xylene	--	0.0011 U	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U
p-Isopropyltoluene	--	NA	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U
sec-Butylbenzene	11	NA	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U
Styrene	--	0.0023 U	0.0022 U	0.0024 U	0.0024 U	0.0023 U	0.0024 U	0.0024 U
t-Butyl Alcohol	--	NA	0.011 UJV	0.012 UJV	0.012 UJV	0.012 UJV	0.012 UJV	0.012 UJV
tert-Butylbenzene	5.9	NA	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U
Tetrachloroethene	1.3	0.06	0.013	0.077	0.059	0.0023 U	0.0024 U	0.0024 U
Toluene	0.7	0.0011 U	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U
trans-1,2-Dichloroethene	0.19	0.0023 U	0.0022 U	0.0024 U	0.0024 U	0.0023 U	0.0024 U	0.0024 U
trans-1,3-Dichloropropene	--	0.0023 U	0.0022 U	0.0024 U	0.0024 U	0.0023 U	0.0024 U	0.0024 U
Trichloroethene	0.47	0.0023 U	0.003	0.0024 U	0.0051	0.0023 U	0.0024 U	0.0024 U
Trichlorofluoromethane	--	0.0023 U	0.0022 U	0.0024 U	0.0024 U	0.0023 U	0.0024 U	0.0024 U
Vinyl chloride	0.02	0.0068	0.0022 U	0.0024 U	0.0024 U	0.0023 U	0.0024 U	0.0024 U
Xylenes (total)	1.6	0.0011 U	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U

J - Estimated value

U - Indicates that the compound was analyzed for but not detected

DUP - Duplicate sample

mg/kg - Milligrams per kilogram

ft bls - Feet below land surface

NYSDEC - New York State Department of Environmental Conservation

-- No NYSDEC Part 375 Protection of Groundwater Criteria available

Part 375 - 6 NYCRR Part 375

Bold - Concentration exceeds NYSDEC Part 375 Protection of Groundwater Criteria

NA - Compound was not analyzed by laboratory

V - Value altered or qualifier added during data validation

R - Sample results rejected by validator

UJ - Analyte was not detected. Associated reported quantitation limit is an estimate

NJ - Detection is tentative in identification and estimated in value

Table 4. Summary of Volatile Organic Compounds Detected in Soil
Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in mg/kg)	NYSDEC	Sample Designation:	GWS-OU1-10	GWS-OU1-10	GWS-OU1-10	GWS-OU1-11	GWS-OU1-11 DUP	GWS-OU1-11
	Part 375	Sample Date:	5/30/2012	5/31/2012	5/31/2012	7/3/2012	7/3/2012	7/3/2012
	Protection of	Sample Depth (ft bls):	25-30	45-47	68-70	14-15	14-15	15-16
	Groundwater							
1,1,1-Trichloroethane	0.68		0.0027 U	0.0024 U	0.0023 U	1.1 U	1.1 U	0.11 U
1,1,2,2-Tetrachloroethane	--		0.0027 U	0.0024 U	0.0023 U	0.82 UJV	0.84 UJV	0.083 U
1,1,2-Trichloroethane	--		0.0027 U	0.0024 U	0.0023 U	1.1 U	1.1 U	0.11 U
1,1-Dichloroethane	0.27		0.0027 U	0.0024 U	0.0023 U	1.1 U	1.1 U	0.11 U
1,1-Dichloroethene	0.33		0.0027 U	0.0024 U	0.0023 U	1.1 U	1.1 U	0.11 U
1,2,3-Trichlorobenzene	--		NA	NA	NA	1.1 U	1.1 U	NA
1,2,3-Trichloropropane	--		0.0027 U	0.0024 U	0.0023 U	NA	NA	0.11 U
1,2,4-Trichlorobenzene	--		NA	NA	NA	1.1 U	1.1 U	NA
1,2,4-Trimethylbenzene	3.6		0.0013 U	0.0012 U	0.0012 U	NA	NA	0.11 U
1,2-Dibromoethane	--		NA	NA	NA	1.1 U	1.1 U	NA
1,2-Dichlorobenzene	1.1		0.0027 U	0.0024 U	0.0023 U	1.1 UJV	1.1 UJV	0.11 U
1,2-Dichloroethane	0.02		0.0027 U	0.0024 U	0.0023 U	0.55 U	0.56 U	0.056 U
1,2-Dichloropropane	--		0.0027 U	0.0024 U	0.0023 U	1.1 U	1.1 U	0.11 U
1,3,5-Trimethylbenzene	8.4		0.0013 U	0.0012 U	0.0012 U	NA	NA	0.11 U
1,3-Dichlorobenzene	2.4		0.0027 U	0.0024 U	0.0023 U	1.1 UJV	1.1 UJV	0.11 U
1,3-Dichloropropane	--		0.0027 U	0.0024 U	0.0023 U	NA	NA	0.11 U
1,4-Dichlorobenzene	1.8		0.0027 U	0.0024 U	0.0023 U	1.1 UJV	1.1 UJV	0.11 U
1,4-Dioxane	0.1		0.13 RV	0.12 RV	0.12 RV	55 RV	56 RV	5.6 RV
2-Butanone (MEK)	0.12		0.0027 U	0.0024 U	0.0023 U	1.1 U	1.1 U	0.11 U
2-Chloroethyl vinyl ether	--		0.0027 U	0.0024 U	0.0023 U	NA	NA	0.11 U
2-Hexanone	--		0.0027 U	0.0024 U	0.0023 U	1.1 UJV	1.1 U	0.11 UJV
4-Methyl-2-pentanone (MIBK)	--		0.0027 U	0.0024 U	0.0023 U	1.1 UJV	1.1 UJV	0.11 UJV
Acetone	0.05		0.013 UJV	0.012 U	0.012 U	11 U	11 U	1.1 U
Acrolein	--		0.013 UJV	0.012 UJV	0.012 UJV	NA	NA	0.56 UJV
Acrylonitrile	--		0.0067 U	0.006 U	0.0058 U	NA	NA	0.22 UJV
Benzene	0.06		0.0013 U	0.0012 U	0.0012 U	0.55 U	0.56 U	0.056 U
Bromochloromethane	--		NA	NA	NA	1.1 U	1.1 U	NA
Bromodichloromethane	--		0.0027 U	0.0024 U	0.0023 U	1.1 U	1.1 U	0.11 U
Bromoform	--		0.0027 U	0.0024 UJV	0.0023 UJV	1.1 UJV	1.1 UJV	0.11 UJV
Bromomethane	--		0.0027 U	0.0024 U	0.0023 U	1.1 U	1.1 U	0.11 U
Carbon disulfide	--		0.0027 U	0.0024 U	0.0023 U	1.1 U	1.1 U	0.11 UJV
Carbon tetrachloride	0.76		0.0027 U	0.0024 U	0.0023 U	1.1 U	1.1 U	0.11 U
Chlorobenzene	1.1		0.0027 U	0.0024 U	0.0023 U	1.1 U	1.1 U	0.11 U
Chloroethane	--		0.0027 U	0.0024 U	0.0023 U	1.1 U	1.1 U	0.11 U
Chloroform	0.37		0.0027 U	0.0024 U	0.0023 U	1.1 U	1.1 U	0.11 U
Chloromethane	--		0.0027 U	0.0024 U	0.0023 U	1.1 U	1.1 U	0.11 U
cis-1,2-Dichloroethene	0.25		0.0027 U	0.0024 U	0.0023 U	1.1 U	1.1 U	0.11 U
cis-1,3-Dichloropropene	--		0.0027 U	0.0024 U	0.0023 U	1.1 UJV	1.1 UJV	0.11 UJV
Cyclohexane	--		NA	NA	NA	1.1 UJV	1.1 UJV	NA
Dibromochloromethane	--		0.0027 U	0.0024 U	0.0023 U	1.1 U	1.1 U	0.11 U
Dibromochloropropane	--		NA	NA	NA	1.1 UJV	1.1 UJV	NA
Dichlorodifluoromethane	--		0.0027 U	0.0024 U	0.0023 U	1.1 U	1.1 U	0.11 U

Table 4. Summary of Volatile Organic Compounds Detected in Soil
Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in mg/kg)	NYSDEC	Sample Designation:	GWS-OU1-10	GWS-OU1-10	GWS-OU1-10	GWS-OU1-11	GWS-OU1-11 DUP	GWS-OU1-11
	Part 375	Sample Date:	5/30/2012	5/31/2012	5/31/2012	7/3/2012	7/3/2012	7/3/2012
	Protection of	Sample Depth (ft bls):	25-30	45-47	68-70	14-15	14-15	15-16
	Groundwater							
Ethylbenzene	1		0.0013 U	0.0012 U	0.0012 U	1.1 U	1.1 U	0.11 U
Freon 113	--		0.0027 U	0.0024 UJV	0.0023 UJV	1.1 U	1.1 U	0.11 U
Isopropylbenzene	--		0.0013 U	0.0012 U	0.0012 U	1.1 U	1.1 U	0.11 U
m+p-Xylene	--		0.0013 U	0.0012 U	0.0012 U	1.1 U	1.1 U	0.11 U
Methyl acetate	--		NA	NA	NA	1.1 U	1.1 U	NA
Methylcyclohexane	--		NA	NA	NA	1.1 U	1.1 U	NA
Methylene chloride	0.05		0.0027 U	0.0024 U	0.0023 U	1.1 U	1.1 U	0.11 U
MTBE	0.93		0.0013 U	0.0012 U	0.0012 U	0.55 U	0.56 U	0.056 UJV
n-Butylbenzene	12		0.0013 U	0.0012 U	0.0012 U	NA	NA	0.11 U
n-Propylbenzene	3.9		0.0013 U	0.0012 U	0.0012 U	NA	NA	0.11 U
o-Xylene	--		0.0013 U	0.0012 U	0.0012 U	1.1 U	1.1 U	0.11 U
p-Isopropyltoluene	--		0.0013 U	0.0012 U	0.0012 U	NA	NA	0.11 U
sec-Butylbenzene	11		0.0013 U	0.0012 U	0.0012 U	NA	NA	0.11 U
Styrene	--		0.0027 U	0.0024 U	0.0023 U	1.1 U	1.1 U	0.11 U
t-Butyl Alcohol	--		0.013 UJV	0.012 UJV	0.012 UJV	NA	NA	0.56 UJV
tert-Butylbenzene	5.9		0.0013 U	0.0012 U	0.0012 U	NA	NA	0.11 U
Tetrachloroethene	1.3		0.0027 U	0.0024 U	0.0023 U	280	280	5.7 JV
Toluene	0.7		0.0013 U	0.0012 U	0.0012 U	1.1 U	1.1 U	0.11 U
trans-1,2-Dichloroethene	0.19		0.0027 U	0.0024 U	0.0023 U	1.1 U	1.1 U	0.11 U
trans-1,3-Dichloropropene	--		0.0027 U	0.0024 U	0.0023 U	1.1 U	1.1 U	0.11 U
Trichloroethene	0.47		0.0027 U	0.0024 U	0.0023 U	1.1 U	1.1 U	0.11 U
Trichlorofluoromethane	--		0.0027 U	0.0024 U	0.0023 U	1.1 UJV	1.1 UJV	0.11 UJV
Vinyl chloride	0.02		0.0027 U	0.0024 U	0.0023 U	1.1 U	1.1 U	0.11 U
Xylenes (total)	1.6		0.0013 U	0.0012 U	0.0012 U	1.1 U	1.1 U	0.11 U

J - Estimated value

U - Indicates that the compound was analyzed for but not detected

DUP - Duplicate sample

mg/kg - Milligrams per kilogram

ft bls - Feet below land surface

NYSDEC - New York State Department of Environmental Conservation

-- No NYSDEC Part 375 Protection of Groundwater Criteria available

Part 375 - 6 NYCRR Part 375

Bold - Concentration exceeds NYSDEC Part 375 Protection of Groundwater Criteria

NA - Compound was not analyzed by laboratory

V - Value altered or qualifier added during data validation

R - Sample results rejected by validator

UJ - Analyte was not detected. Associated reported quantitation limit is an estimate

NJ - Detection is tentative in identification and estimated in value

Table 4. Summary of Volatile Organic Compounds Detected in Soil
Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in mg/kg)	NYSDEC Part 375 Protection of Groundwater	Sample Designation: Sample Date: Sample Depth (ft bls):	GWS-OU1-11	GWS-OU1-11	GWS-OU1-12	GWS-OU1-13	GWS-OU1-13	GWS-OU1-14
			7/3/2012	7/3/2012	7/2/2012	7/2/2012	7/2/2012	7/2/2012
			20-22	25-30	12-14	10-15	23-28	13-14
1,1,1-Trichloroethane	0.68		0.0024 U	0.0027 U	0.0022 U	0.0025 U	0.0026 U	0.0034 U
1,1,2,2-Tetrachloroethane	--		0.0024 U	0.0027 U	0.0022 U	0.0025 U	0.0026 U	0.0034 U
1,1,2-Trichloroethane	--		0.0024 U	0.0027 U	0.0022 U	0.0025 U	0.0026 U	0.0034 U
1,1-Dichloroethane	0.27		0.0024 U	0.0027 U	0.0022 U	0.0025 U	0.0026 U	0.0034 U
1,1-Dichloroethene	0.33		0.0024 U	0.0027 U	0.0022 U	0.0025 U	0.0026 U	0.0034 U
1,2,3-Trichlorobenzene	--		NA	NA	0.0022 U	0.0025 U	NA	0.0034 U
1,2,3-Trichloropropane	--		0.0024 U	0.0027 U	NA	NA	0.0026 U	NA
1,2,4-Trichlorobenzene	--		NA	NA	0.0022 U	0.0025 U	NA	0.0034 U
1,2,4-Trimethylbenzene	3.6		0.0012 U	0.0014 U	NA	NA	0.0013 U	NA
1,2-Dibromoethane	--		NA	NA	0.0022 U	0.0025 U	NA	0.0034 U
1,2-Dichlorobenzene	1.1		0.0024 U	0.0027 U	0.0022 U	0.0025 U	0.0026 U	0.0034 U
1,2-Dichloroethane	0.02		0.0024 U	0.0027 U	0.0022 U	0.0025 U	0.0026 U	0.0034 U
1,2-Dichloropropane	--		0.0024 U	0.0027 U	0.0022 U	0.0025 U	0.0026 U	0.0034 U
1,3,5-Trimethylbenzene	8.4		0.0012 U	0.0014 U	NA	NA	0.0013 U	NA
1,3-Dichlorobenzene	2.4		0.0024 U	0.0027 U	0.0022 U	0.0025 U	0.0026 U	0.0034 U
1,3-Dichloropropane	--		0.0024 U	0.0027 U	NA	NA	0.0026 U	NA
1,4-Dichlorobenzene	1.8		0.0024 U	0.0027 U	0.0022 U	0.0025 U	0.0026 U	0.0034 U
1,4-Dioxane	0.1		0.12 RV	0.14 RV	0.11 RV	0.12 RV	0.13 RV	0.17 RV
2-Butanone (MEK)	0.12		0.0024 U	0.0027 UJV	0.0022 U	0.0025 U	0.0026 U	0.19
2-Chloroethyl vinyl ether	--		0.0024 U	0.0027 U	NA	NA	0.0026 U	NA
2-Hexanone	--		0.0024 U	0.0027 U	0.0022 UJV	0.0025 UJV	0.0026 UJV	0.0034 UJV
4-Methyl-2-pentanone (MIBK)	--		0.0024 U	0.0027 U	0.0022 U	0.0025 U	0.0026 U	0.0034 U
Acetone	0.05		0.012 U	0.014 U	0.011 UJV	0.012 UJV	0.013 UJV	1.2 JV
Acrolein	--		0.012 UJV	0.014 UJV	NA	NA	0.013 UJV	NA
Acrylonitrile	--		0.0059 U	0.0068 U	NA	NA	0.0065 UJV	NA
Benzene	0.06		0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.0013 U	0.0017 U
Bromochloromethane	--		NA	NA	0.0022 U	0.0025 U	NA	0.0034 U
Bromodichloromethane	--		0.0024 U	0.0027 U	0.0022 U	0.0025 U	0.0026 U	0.0034 U
Bromoform	--		0.0024 U	0.0027 U	0.0022 U	0.0025 U	0.0026 U	0.0034 U
Bromomethane	--		0.0024 U	0.0027 U	0.0022 U	0.0025 U	0.0026 U	0.0034 U
Carbon disulfide	--		0.0024 U	0.0027 U	0.0022 U	0.0025 U	0.0026 U	0.0034 U
Carbon tetrachloride	0.76		0.0024 U	0.0027 U	0.0022 U	0.0025 U	0.0026 U	0.0034 U
Chlorobenzene	1.1		0.0024 U	0.0027 U	0.0022 U	0.0025 U	0.0026 U	0.0034 U
Chloroethane	--		0.0024 U	0.0027 U	0.0022 U	0.0025 U	0.0026 U	0.0034 U
Chloroform	0.37		0.0024 U	0.0027 U	0.0022 U	0.0025 U	0.0026 U	0.0034 U
Chloromethane	--		0.0024 U	0.0027 U	0.0022 U	0.0025 U	0.0026 U	0.0034 U
cis-1,2-Dichloroethene	0.25		0.0024 U	0.0027 U	0.0022 U	0.0025 U	0.0026 U	0.0034 U
cis-1,3-Dichloropropene	--		0.0024 U	0.0027 U	0.0022 U	0.0025 U	0.0026 U	0.0034 U
Cyclohexane	--		NA	NA	0.0022 U	0.0025 U	NA	0.0034 U
Dibromochloromethane	--		0.0024 U	0.0027 U	0.0022 U	0.0025 U	0.0026 U	0.0034 U
Dibromochloropropane	--		NA	NA	0.0022 U	0.0025 U	NA	0.0034 U
Dichlorodifluoromethane	--		0.0024 UJV	0.0027 U	0.0022 U	0.0025 U	0.0026 U	0.0034 U

Table 4. Summary of Volatile Organic Compounds Detected in Soil
Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in mg/kg)	NYSDEC	Sample Designation: Sample Date: Sample Depth (ft bls):	GWS-OU1-11	GWS-OU1-11	GWS-OU1-12	GWS-OU1-13	GWS-OU1-13	GWS-OU1-14
	Part 375		7/3/2012	7/3/2012	7/2/2012	7/2/2012	7/2/2012	7/2/2012
	Protection of		20-22	25-30	12-14	10-15	23-28	13-14
	Groundwater							
Ethylbenzene	1		0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.0013 U	0.0017 U
Freon 113	--		0.0024 U	0.0027 U	0.0022 U	0.0025 U	0.0026 U	0.0034 U
Isopropylbenzene	--		0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.0013 U	0.0017 U
m+p-Xylene	--		0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.0013 U	0.0017 U
Methyl acetate	--		NA	NA	0.0022 U	0.0025 U	NA	0.0034 U
Methylcyclohexane	--		NA	NA	0.0022 U	0.0025 U	NA	0.0034 U
Methylene chloride	0.05		0.0024 U	0.0027 U	0.0022 U	0.003	0.0027	0.0034 U
MTBE	0.93		0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.0013 U	0.0017 U
n-Butylbenzene	12		0.0012 U	0.0014 U	NA	NA	0.0013 U	NA
n-Propylbenzene	3.9		0.0012 U	0.0014 U	NA	NA	0.0013 U	NA
o-Xylene	--		0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.0013 U	0.0017 U
p-Isopropyltoluene	--		0.0012 U	0.0014 U	NA	NA	0.0013 U	NA
sec-Butylbenzene	11		0.0012 U	0.0014 U	NA	NA	0.0013 U	NA
Styrene	--		0.0024 U	0.0027 U	0.0022 UJV	0.0025 UJV	0.0026 UJV	0.0034 UJV
t-Butyl Alcohol	--		0.012 UJV	0.014 UJV	NA	NA	0.013 UJV	NA
tert-Butylbenzene	5.9		0.0012 U	0.0014 U	NA	NA	0.0013 U	NA
Tetrachloroethene	1.3		0.012	0.0088	0.0022 U	0.0025 U	0.0026 U	0.0034 U
Toluene	0.7		0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.0013 U	0.0017 U
trans-1,2-Dichloroethene	0.19		0.0024 U	0.0027 U	0.0022 U	0.0025 U	0.0026 U	0.0034 U
trans-1,3-Dichloropropene	--		0.0024 U	0.0027 U	0.0022 UJV	0.0025 UJV	0.0026 UJV	0.0034 UJV
Trichloroethene	0.47		0.0024 U	0.0027 U	0.0022 U	0.0025 U	0.0026 U	0.0034 U
Trichlorofluoromethane	--		0.0024 U	0.0027 U	0.0022 U	0.0025 U	0.0026 U	0.0034 U
Vinyl chloride	0.02		0.0024 U	0.0027 U	0.0022 U	0.0025 U	0.0026 U	0.0034 U
Xylenes (total)	1.6		0.0012 U	0.0014 U	0.0011 U	0.0012 U	0.0013 U	0.0017 U

J - Estimated value

U - Indicates that the compound was analyzed for but not detected

DUP - Duplicate sample

mg/kg - Milligrams per kilogram

ft bls - Feet below land surface

NYSDEC - New York State Department of Environmental Conservation

-- No NYSDEC Part 375 Protection of Groundwater Criteria available

Part 375 - 6 NYCRR Part 375

Bold - Concentration exceeds NYSDEC Part 375 Protection of Groundwater Criteria

NA - Compound was not analyzed by laboratory

V - Value altered or qualifier added during data validation

R - Sample results rejected by validator

UJ - Analyte was not detected. Associated reported quantitation limit is an estimate

NJ - Detection is tentative in identification and estimated in value

Table 4. Summary of Volatile Organic Compounds Detected in Soil
Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in mg/kg)	NYSDEC	Sample Designation: Sample Date: Sample Depth (ft bls):	TPD-1	TPD-2	TPD-3	TPD-3 NS	TPD-3 WE
	Part 375		7/20/2012	7/26/2012	7/27/2012	7/27/2012	7/27/2012
	Protection of Groundwater						
1,1,1-Trichloroethane	0.68		0.11 U	0.0022 U	0.0025 U	0.0022 U	0.0023 U
1,1,2,2-Tetrachloroethane	--		0.11 U	0.0022 UJV	0.0025 UJV	0.0022 UJV	0.0023 UJV
1,1,2-Trichloroethane	--		0.11 U	0.0022 U	0.0025 U	0.0022 U	0.0023 U
1,1-Dichloroethane	0.27		0.11 U	0.0022 U	0.0025 U	0.0022 U	0.0023 U
1,1-Dichloroethene	0.33		0.11 U	0.0022 U	0.0025 U	0.0022 U	0.0023 U
1,2,3-Trichlorobenzene	--		NA	NA	NA	NA	NA
1,2,3-Trichloropropane	--		0.11 U	0.0022 U	0.0025 U	0.0022 U	0.0023 U
1,2,4-Trichlorobenzene	--		NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	3.6		0.11 U	0.0011 U	0.0012 U	0.0011 U	0.0011 U
1,2-Dibromoethane	--		NA	NA	NA	NA	NA
1,2-Dichlorobenzene	1.1		0.11 U	0.0022 U	0.0025 U	0.0022 U	0.0023 U
1,2-Dichloroethane	0.02		0.056 U	0.0022 U	0.0025 U	0.0022 U	0.0023 U
1,2-Dichloropropane	--		0.11 U	0.0022 U	0.0025 U	0.0022 U	0.0023 U
1,3,5-Trimethylbenzene	8.4		0.11 U	0.0011 U	0.0012 UJV	0.0011 U	0.0011 U
1,3-Dichlorobenzene	2.4		0.11 U	0.0022 U	0.0025 U	0.0022 U	0.0023 U
1,3-Dichloropropane	--		0.11 U	0.0022 U	0.0025 U	0.0022 U	0.0023 U
1,4-Dichlorobenzene	1.8		0.11 U	0.0022 U	0.0025 U	0.0022 U	0.0023 U
1,4-Dioxane	0.1		5.6 RV	0.11 RV	0.12 RV	0.11 RV	0.11 RV
2-Butanone (MEK)	0.12		0.11 U	0.0022 U	0.0025 U	0.0022 U	0.0023 U
2-Chloroethyl vinyl ether	--		0.11 U	0.0022 U	0.0025 U	0.0022 U	0.0023 U
2-Hexanone	--		0.11 U	0.0022 U	0.0025 UJV	0.0022 U	0.0023 U
4-Methyl-2-pentanone (MIBK)	--		0.11 U	0.0022 U	0.0025 UJV	0.0022 U	0.0023 U
Acetone	0.05		1.1 U	0.011 U	0.012 U	0.023	0.023
Acrolein	--		0.56 UJV	0.011 UJV	0.012 UJV	0.011 UJV	0.011 UJV
Acrylonitrile	--		0.23 U	0.0056 UJV	0.0062 U	0.0054 UJV	0.0057 UJV
Benzene	0.06		0.056 U	0.0011 U	0.0012 U	0.0011 U	0.0011 U
Bromochloromethane	--		NA	NA	NA	NA	NA
Bromodichloromethane	--		0.11 U	0.0022 U	0.0025 U	0.0022 U	0.0023 U
Bromoform	--		0.11 U	0.0022 UJV	0.0025 U	0.0022 UJV	0.0023 UJV
Bromomethane	--		0.11 U	0.0022 U	0.0025 U	0.0022 U	0.0023 U
Carbon disulfide	--		0.11 U	0.0022 U	0.0025 U	0.0022 U	0.0023 U
Carbon tetrachloride	0.76		0.11 U	0.0022 U	0.0025 U	0.0022 U	0.0023 U
Chlorobenzene	1.1		0.11 U	0.0022 U	0.0025 U	0.0022 U	0.0023 U
Chloroethane	--		0.11 U	0.0022 U	0.0025 U	0.0022 U	0.0023 U
Chloroform	0.37		0.11 U	0.0022 U	0.0025 U	0.0022 U	0.0023 U
Chloromethane	--		0.11 U	0.0022 U	0.0025 U	0.0022 U	0.0023 U
cis-1,2-Dichloroethene	0.25		0.11 U	0.0022 U	0.0025 U	0.0043 JV	0.0023 U
cis-1,3-Dichloropropene	--		0.11 U	0.0022 U	0.0025 U	0.0022 U	0.0023 U
Cyclohexane	--		NA	NA	NA	NA	NA
Dibromochloromethane	--		0.11 U	0.0022 U	0.0025 U	0.0022 U	0.0023 U
Dibromochloropropane	--		NA	NA	NA	NA	NA
Dichlorodifluoromethane	--		0.11 U	0.0022 U	0.0025 U	0.0022 U	0.0023 U

Table 4. Summary of Volatile Organic Compounds Detected in Soil
Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in mg/kg)	NYSDEC Part 375 Protection of Groundwater	Sample Designation: Sample Date: Sample Depth (ft bls):	TPD-1 7/20/2012	TPD-2 7/26/2012	TPD-3 7/27/2012	TPD-3 NS 7/27/2012	TPD-3 WE 7/27/2012
Ethylbenzene	1		0.11 U	0.0011 U	0.0012 U	0.0011 U	0.0011 U
Freon 113	--		0.11 U	0.0022 U	0.0025 U	0.0022 U	0.0023 U
Isopropylbenzene	--		0.11 U	0.0011 U	0.0012 U	0.0011 U	0.0011 U
m+p-Xylene	--		0.11 U	0.0011 U	0.0012 U	0.0011 U	0.0011 U
Methyl acetate	--		NA	NA	NA	NA	NA
Methylcyclohexane	--		NA	NA	NA	NA	NA
Methylene chloride	0.05		0.11 U	0.0031	0.0025 U	0.0022 U	0.0023 U
MTBE	0.93		0.056 U	0.0011 U	0.0012 U	0.0011 U	0.0011 U
n-Butylbenzene	12		0.11 U	0.0011 U	0.0012 U	0.0011 U	0.0011 U
n-Propylbenzene	3.9		0.11 U	0.0011 U	0.0012 U	0.0011 U	0.0011 U
o-Xylene	--		0.11 U	0.0011 UJV	0.0012 U	0.0011 UJV	0.0011 UJV
p-Isopropyltoluene	--		0.11 U	0.0011 U	0.0012 U	0.0011 U	0.0011 U
sec-Butylbenzene	11		0.11 U	0.0011 U	0.0012 U	0.0011 U	0.0011 U
Styrene	--		0.11 U	0.0022 U	0.0025 U	0.0022 U	0.0023 U
t-Butyl Alcohol	--		0.56 UJV	0.011 UJV	0.012 UJV	0.011 UJV	0.011 UJV
tert-Butylbenzene	5.9		0.11 U	0.0011 U	0.0012 U	0.0011 U	0.0011 U
Tetrachloroethene	1.3		3.2	0.016	0.0041	0.023	0.089
Toluene	0.7		0.11 U	0.0011 U	0.0012 U	0.0011 U	0.0011 U
trans-1,2-Dichloroethene	0.19		0.11 U	0.0022 UJV	0.0025 U	0.0022 UJV	0.0023 UJV
trans-1,3-Dichloropropene	--		0.11 U	0.0022 U	0.0025 U	0.0022 U	0.0023 U
Trichloroethene	0.47		0.11 U	0.0022 U	0.0025 U	0.0022 U	0.0023 U
Trichlorofluoromethane	--		0.11 U	0.0022 U	0.0025 U	0.0022 U	0.0023 U
Vinyl chloride	0.02		0.11 U	0.0022 U	0.0025 U	0.0022 U	0.0023 U
Xylenes (total)	1.6		0.11 U	0.0011 U	0.0012 U	0.0011 U	0.0011 U

J - Estimated value

U - Indicates that the compound was analyzed for but not detected

DUP - Duplicate sample

mg/kg - Milligrams per kilogram

ft bls - Feet below land surface

NYSDEC - New York State Department of Environmental Conservation

-- No NYSDEC Part 375 Protection of Groundwater Criteria available

Part 375 - 6 NYCRR Part 375

Bold - Concentration exceeds NYSDEC Part 375 Protection of Groundwater Criteria

NA - Compound was not analyzed by laboratory

V - Value altered or qualifier added during data validation

R - Sample results rejected by validator

UJ - Analyte was not detected. Associated reported quantitation limit is an estimate

NJ - Detection is tentative in identification and estimated in value

Table 5. Summary of Semivolatile Organic Compounds Detected in Soil, Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in mg/kg)	NYSDEC	Sample Designation:	GWS-OU1-1	GWS-OU1-1 DUP	GWS-OU1-3	GWS-OU1-3 DUP	GWS-OU1-6	GWS-OU1-6	GWS-OU1-8
	Part 375	Sample Date:	6/6/2012	6/6/2012	6/4/2012	6/4/2012	6/29/2012	6/29/2012	6/29/2012
	Restricted	Sample Depth (ft bls):	8-13	8-13	9-12	9-12	9-11	13-15	10-15
	Residential								
1,1'-Biphenyl	--		0.047 U	0.045 U	0.039 U	0.038 U	0.098 U	0.039 U	0.042 U
1,2,4,5-Tetrachlorobenzene	--		0.047 U	0.045 U	0.039 U	0.038 U	0.098 U	0.039 U	0.042 U
2,2'-oxybis (1-chloropropane)	--		0.047 U	0.045 U	0.039 U	0.038 U	0.098 U	0.039 U	0.042 U
2,3,4,6-Tetrachlorophenol	--		0.047 U	0.045 U	0.039 U	0.038 U	0.098 U	0.039 U	0.042 U
2,4,5-Trichlorophenol	--		0.047 U	0.045 U	0.039 U	0.038 U	0.098 U	0.039 U	0.042 U
2,4,6-Trichlorophenol	--		0.047 U	0.045 U	0.039 U	0.038 U	0.098 U	0.039 U	0.042 U
2,4-Dichlorophenol	--		0.012 U	0.011 U	0.0097 U	0.0096 U	0.025 U	0.0098 U	0.01 U
2,4-Dimethylphenol	--		0.047 U	0.045 U	0.039 U	0.038 U	0.098 U	0.039 U	0.042 U
2,4-Dinitrophenol	--		0.23 U	0.23 U	0.19 U	0.19 U	0.49 U	0.2 U	0.21 U
2,4-Dinitrotoluene	--		0.047 U	0.045 U	0.039 U	0.038 U	0.098 U	0.039 U	0.042 U
2,6-Dinitrotoluene	--		0.047 U	0.045 U	0.039 U	0.038 U	0.098 U	0.039 U	0.042 U
2-Chloronaphthalene	--		0.047 U	0.045 U	0.039 U	0.038 U	0.098 U	0.039 U	0.042 U
2-Chlorophenol	--		0.047 U	0.045 U	0.039 U	0.038 U	0.098 U	0.039 U	0.042 U
2-Methylnaphthalene	--		0.047 U	0.045 U	0.12	0.048	0.098 U	0.039 U	0.042 U
2-Methylphenol	100		0.012 U	0.011 U	0.0097 U	0.0096 U	0.025 U	0.0098 U	0.01 U
2-Nitroaniline	--		0.047 U	0.045 U	0.039 U	0.038 U	0.098 U	0.039 U	0.042 U
2-Nitrophenol	--		0.047 U	0.045 U	0.039 U	0.038 U	0.098 U	0.039 U	0.042 U
3,3'-Dichlorobenzidine	--		0.047 U	0.045 U	0.039 U	0.038 U	0.098 U	0.039 U	0.042 U
3-Nitroaniline	--		0.047 U	0.045 U	0.039 U	0.038 U	0.098 U	0.039 U	0.042 U
4,6-Dinitro-2-methylphenol	--		0.23 U	0.23 U	0.19 U	0.19 U	0.098 U	0.039 U	0.042 U
4-Bromophenyl phenyl ether	--		0.047 U	0.045 U	0.039 U	0.038 U	0.098 U	0.039 U	0.042 U
4-Chloro-3-methylphenol	--		0.047 U	0.045 U	0.039 U	0.038 U	0.098 U	0.039 U	0.042 U
4-Chloroaniline	--		0.022 U	0.021 U	0.018 U	0.018 U	0.046 U	0.019 U	0.02 U
4-Chlorophenyl phenyl ether	--		0.047 U	0.045 U	0.039 U	0.038 U	0.098 U	0.039 U	0.042 U
4-Methylphenol	100		0.012 U	0.011 U	0.0097 U	0.0096 U	0.2	0.0098 U	0.01 U
4-Nitroaniline	--		0.047 U	0.045 U	0.039 U	0.038 U	0.098 U	0.039 U	0.042 U
4-Nitrophenol	--		0.047 U	0.045 U	0.039 U	0.038 U	0.098 U	0.039 U	0.042 U
Acenaphthene	100		0.047 U	0.045 U	0.039 U	0.038 U	0.098 U	0.039 U	0.042 U
Acenaphthylene	100		0.047 U	0.045 U	0.039 U	0.038 U	0.098 U	0.039 U	0.042 U
Acetophenone	--		0.047 U	0.045 U	0.039 U	0.038 U	0.098 U	0.039 U	0.042 U
Anthracene	100		0.047 U	0.045 U	0.039 U	0.046	0.14	0.039 U	0.042 U
Atrazine	--		0.047 U	0.045 U	0.039 U	0.038 U	0.098 U	0.039 U	0.042 U
Benzaldehyde	--		0.047 U	0.045 U	0.039 U	0.038 U	0.098 U	0.039 U	0.042 U
Benzo[a]anthracene	1		0.047 U	0.045 U	0.075	0.13	0.53	0.039 U	0.042 U
Benzo[a]pyrene	1		0.047 U	0.045 U	0.072	0.088	0.43	0.039 U	0.044
Benzo[b]fluoranthene	1		0.047 U	0.045 U	0.11	0.11	0.68	0.039 U	0.042 U
Benzo[g,h,i]perylene	100		0.047 U	0.045 U	0.051	0.047	0.32	0.039 U	0.042 U
Benzo[k]fluoranthene	3.9		0.047 U	0.045 U	0.04	0.045	0.17	0.039 U	0.042 U
Bis(2-chloroethoxy)methane	--		0.047 U	0.045 U	0.039 U	0.038 U	0.098 U	0.039 U	0.042 U
Bis(2-chloroethyl) ether	--		0.012 U	0.011 U	0.0097 U	0.0096 U	0.025 U	0.0098 U	0.01 U
Bis(2-ethylhexyl) phthalate	--		0.047 U	0.045 U	0.058	0.04	0.098 U	0.039 U	0.042 U
Butylbenzyl phthalate	--		0.047 U	0.045 U	0.039 U	0.038 U	0.098 U	0.039 U	0.042 U

Table 5. Summary of Semivolatile Organic Compounds Detected in Soil, Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in mg/kg)	NYSDEC	Sample Designation: Sample Date: Sample Depth (ft bls):	GWS-OU1-1	GWS-OU1-1 DUP	GWS-OU1-3	GWS-OU1-3 DUP	GWS-OU1-6	GWS-OU1-6	GWS-OU1-8
	Part 375		6/6/2012	6/6/2012	6/4/2012	6/4/2012	6/29/2012	6/29/2012	6/29/2012
	Restricted		8-13	8-13	9-12	9-12	9-11	13-15	10-15
	Residential								
Caprolactam	--		0.047 U	0.045 U	0.039 U	0.038 U	0.098 U	0.039 U	0.042 U
Carbazole	--		0.047 U	0.045 U	0.039 U	0.038 U	0.098 U	0.039 U	0.042 U
Chrysene	3.9		0.047 U	0.045 U	0.072	0.13	0.5	0.039 U	0.042 U
Dibenzo[a,h]anthracene	0.33		0.047 U	0.045 U	0.039 U	0.038 U	0.098 U	0.039 U	0.042 U
Dibenzofuran	59		0.012 U	0.011 U	0.0097 U	0.0096 U	0.025 U	0.0098 U	0.01 U
Diethyl phthalate	--		0.047 U	0.045 U	0.039 U	0.038 U	0.098 U	0.039 U	0.042 U
Dimethyl phthalate	--		0.047 U	0.045 U	0.039 U	0.038 U	0.098 U	0.039 U	0.042 U
Di-n-butyl phthalate	--		0.024 U	0.023 U	0.019 U	0.019 U	0.049 U	0.02 U	0.021 U
Di-n-octyl phthalate	--		0.047 U	0.045 U	0.039 U	0.038 U	0.098 U	0.039 U	0.042 U
Fluoranthene	100		0.047 U	0.045 U	0.14 JV	0.26 JV	1	0.039 U	0.042 U
Fluorene	100		0.047 U	0.045 U	0.039 U	0.038 U	0.098 U	0.039 U	0.042 U
Hexachlorobenzene	1.2		0.047 U	0.045 U	0.039 U	0.038 U	0.098 U	0.039 U	0.042 U
Hexachlorobutadiene	--		0.047 U	0.045 U	0.039 U	0.038 U	0.098 U	0.039 U	0.042 U
Hexachlorocyclopentadiene	--		0.047 U	0.045 UJV	0.039 U	0.038 U	0.098 UJV	0.039 UJV	0.042 UJV
Hexachloroethane	--		0.047 U	0.045 U	0.039 U	0.038 U	0.098 U	0.039 U	0.042 U
Indeno[1,2,3-cd]pyrene	0.5		0.047 U	0.045 U	0.044	0.042	0.26	0.039 U	0.042 U
Isophorone	--		0.047 U	0.045 U	0.039 U	0.038 U	0.098 U	0.039 U	0.042 U
Naphthalene	100		0.012 U	0.011 U	0.051 UV	0.072 UV	0.025 U	0.0098 U	0.01 U
Nitrobenzene	--		0.047 U	0.045 U	0.039 U	0.038 U	0.098 U	0.039 U	0.042 U
n-Nitrosodi-n-propylamine	--		0.012 U	0.011 U	0.0097 U	0.0096 U	0.025 U	0.0098 U	0.01 U
n-Nitrosodiphenylamine	--		0.047 U	0.045 U	0.039 U	0.038 U	0.098 U	0.039 U	0.042 U
Pentachlorophenol	6.7		0.23 U	0.23 U	0.19 U	0.19 U	0.49 U	0.2 U	0.21 U
Phenanthrene	100		0.047 U	0.045 U	0.049 JV	0.36 JV	0.78	0.039 U	0.042 U
Phenol	100		0.047 U	0.045 U	0.039 U	0.038 U	0.098 U	0.039 U	0.042 U
Pyrene	100		0.047 U	0.045 U	0.13 JV	0.38 JV	0.95	0.039 U	0.042 U

J - Estimated value

U - Indicates that the compound was analyzed for but not detected

DUP - Duplicate sample

mg/kg - Milligrams per kilogram

ft bls - Feet below land surface

NYSDEC - New York State Department of Environmental Conservation

-- No NYSDEC Part 375 Restricted Residential Criteria available

Part 375 - 6 NYCRR Part 375

Bold - Concentration exceeds NYSDEC Part 375 Restricted Residential Criteria

NA - Compound was not analyzed by laboratory

V - Value altered or qualifier added during data validation

R - Sample results rejected by validator

UJ - Analyte was not detected. Associated reported quantitation limit is an estimate

NJ - Detection is tentative in identification and estimated in value

Table 5. Summary of Semivolatile Organic Compounds Detected in Soil, Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in mg/kg)	NYSDEC	Sample Designation:	GWS-OU1-9	GWS-OU1-11	GWS-OU1-11 DUP	GWS-OU1-12	GWS-OU1-13	GWS-OU1-14
	Part 375	Sample Date:	7/3/2012	7/3/2012	7/3/2012	7/2/2012	7/2/2012	7/2/2012
	Restricted	Sample Depth (ft bls):	14-15	14-15	14-15	12-14	10-15	13-14
	Residential							
1,1'-Biphenyl	--		0.039 U	0.037 U	0.038 U	0.038 U	0.043 U	0.058 U
1,2,4,5-Tetrachlorobenzene	--		0.039 U	0.037 U	0.038 U	0.038 U	0.043 U	0.058 U
2,2'-oxybis (1-chloropropane)	--		0.039 U	0.037 U	0.038 U	0.038 U	0.043 U	0.058 U
2,3,4,6-Tetrachlorophenol	--		0.039 U	0.037 U	0.038 U	0.038 U	0.043 U	0.058 U
2,4,5-Trichlorophenol	--		0.039 U	0.037 U	0.038 U	0.038 U	0.043 U	0.058 U
2,4,6-Trichlorophenol	--		0.039 U	0.037 U	0.038 U	0.038 U	0.043 U	0.058 U
2,4-Dichlorophenol	--		0.0098 U	0.0094 U	0.0095 U	0.0095 U	0.011 U	0.015 U
2,4-Dimethylphenol	--		0.039 U	0.037 U	0.038 U	0.038 U	0.043 U	0.058 U
2,4-Dinitrophenol	--		0.2 U	0.19 U	0.19 U	0.19 U	0.21 U	0.29 U
2,4-Dinitrotoluene	--		0.039 U	0.037 U	0.038 U	0.038 U	0.043 U	0.058 U
2,6-Dinitrotoluene	--		0.039 U	0.037 U	0.038 U	0.038 U	0.043 U	0.058 U
2-Chloronaphthalene	--		0.039 U	0.037 U	0.038 U	0.038 U	0.043 U	0.058 U
2-Chlorophenol	--		0.039 U	0.037 U	0.038 U	0.038 U	0.043 U	0.058 U
2-Methylnaphthalene	--		0.039 U	0.037 U	0.038 U	0.038 U	0.043 U	0.058 U
2-Methylphenol	100		0.0098 U	0.0094 U	0.0095 U	0.0095 U	0.011 U	0.015 U
2-Nitroaniline	--		0.039 U	0.037 U	0.038 U	0.038 U	0.043 U	0.058 U
2-Nitrophenol	--		0.039 U	0.037 U	0.038 U	0.038 U	0.043 U	0.058 U
3,3'-Dichlorobenzidine	--		0.039 U	0.037 U	0.038 U	0.038 U	0.043 U	0.058 U
3-Nitroaniline	--		0.039 U	0.037 U	0.038 U	0.038 U	0.043 U	0.058 U
4,6-Dinitro-2-methylphenol	--		0.2 U	0.037 U	0.038 U	0.038 U	0.043 U	0.058 U
4-Bromophenyl phenyl ether	--		0.039 U	0.037 U	0.038 U	0.038 U	0.043 U	0.058 U
4-Chloro-3-methylphenol	--		0.039 U	0.037 U	0.038 U	0.038 U	0.043 U	0.058 U
4-Chloroaniline	--		0.019 U	0.018 U	0.018 U	0.018 U	0.02 U	0.028 U
4-Chlorophenyl phenyl ether	--		0.039 U	0.037 U	0.038 U	0.038 U	0.043 U	0.058 U
4-Methylphenol	100		0.0098 U	0.0094 U	0.0095 U	0.0095 U	0.011 U	0.015 U
4-Nitroaniline	--		0.039 U	0.037 U	0.038 U	0.038 U	0.043 U	0.058 U
4-Nitrophenol	--		0.039 U	0.037 U	0.038 U	0.038 U	0.043 U	0.058 U
Acenaphthene	100		0.039 U	0.037 U	0.038 U	0.038 U	0.043 U	0.058 U
Acenaphthylene	100		0.039 U	0.037 U	0.038 U	0.038 U	0.043 U	0.058 U
Acetophenone	--		0.039 U	0.037 U	0.038 U	0.038 U	0.043 U	0.058 U
Anthracene	100		0.039 U	0.037 U	0.049	0.038 U	0.043 U	0.058 U
Atrazine	--		0.039 U	0.037 U	0.038 U	0.038 U	0.043 U	0.058 U
Benzaldehyde	--		0.039 U	0.037 U	0.038 U	0.038 U	0.043 U	0.058 U
Benzo[a]anthracene	1		0.039 U	0.13	0.16	0.038 U	0.043 U	0.058 U
Benzo[a]pyrene	1		0.039 U	0.12	0.17	0.038 U	0.043 U	0.55
Benzo[b]fluoranthene	1		0.039 U	0.16	0.23	0.038 U	0.043 U	0.058 U
Benzo[g,h,i]perylene	100		0.039 U	0.078	0.11	0.038 U	0.043 U	0.058 U
Benzo[k]fluoranthene	3.9		0.039 U	0.067	0.082	0.038 U	0.043 U	0.058 U
Bis(2-chloroethoxy)methane	--		0.039 U	0.037 U	0.038 U	0.038 U	0.043 U	0.058 U
Bis(2-chloroethyl) ether	--		0.0098 U	0.0094 U	0.0095 U	0.0095 U	0.011 U	0.015 U
Bis(2-ethylhexyl) phthalate	--		0.039 U	0.037 U	0.038 U	0.038 U	0.043 U	0.094
Butylbenzyl phthalate	--		0.039 U	0.037 U	0.038 U	0.038 U	0.043 U	0.058 U

Table 5. Summary of Semivolatile Organic Compounds Detected in Soil, Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in mg/kg)	NYSDEC	Sample Designation: Sample Date: Sample Depth (ft bls):	GWS-OU1-9	GWS-OU1-11	GWS-OU1-11 DUP	GWS-OU1-12	GWS-OU1-13	GWS-OU1-14
	Part 375		7/3/2012	7/3/2012	7/3/2012	7/2/2012	7/2/2012	7/2/2012
	Restricted		14-15	14-15	14-15	12-14	10-15	13-14
	Residential							
Caprolactam	--		0.039 U	0.037 U	0.038 U	0.038 U	0.043 U	0.058 U
Carbazole	--		0.039 U	0.037 U	0.038 U	0.038 U	0.043 U	0.058 U
Chrysene	3.9		0.039 U	0.11	0.16	0.038 U	0.043 U	0.058 U
Dibenzo[a,h]anthracene	0.33		0.039 U	0.037 U	0.038 U	0.038 U	0.043 U	0.058 U
Dibenzofuran	59		0.0098 U	0.0094 UJV	0.02 JV	0.0095 U	0.011 U	0.015 U
Diethyl phthalate	--		0.039 U	0.037 U	0.038 U	0.038 U	0.043 U	0.058 U
Dimethyl phthalate	--		0.039 U	0.037 U	0.038 U	0.038 U	0.043 U	0.058 U
Di-n-butyl phthalate	--		0.02 U	0.019 U	0.019 U	0.019 U	0.021 U	0.029 U
Di-n-octyl phthalate	--		0.039 U	0.037 U	0.038 U	0.038 U	0.043 U	0.058 U
Fluoranthene	100		0.039 U	0.29	0.44	0.038 U	0.043 U	0.058 U
Fluorene	100		0.039 U	0.037 U	0.038 U	0.038 U	0.043 U	0.058 U
Hexachlorobenzene	1.2		0.039 U	0.037 U	0.038 U	0.038 U	0.043 U	0.058 U
Hexachlorobutadiene	--		0.039 U	0.037 U	0.038 U	0.038 U	0.043 U	0.058 U
Hexachlorocyclopentadiene	--		0.039 U	0.037 UJV	0.038 UJV	0.038 UJV	0.043 UJV	0.058 UJV
Hexachloroethane	--		0.039 U	0.037 U	0.038 U	0.038 U	0.043 U	0.058 U
Indeno[1,2,3-cd]pyrene	0.5		0.039 U	0.072	0.12	0.038 U	0.043 U	0.058 U
Isophorone	--		0.039 U	0.037 U	0.038 U	0.038 U	0.043 U	0.058 U
Naphthalene	100		0.0098 U	0.0094 U	0.0095 U	0.0095 U	0.011 U	0.015 U
Nitrobenzene	--		0.039 U	0.037 U	0.038 U	0.038 U	0.043 U	0.058 U
n-Nitrosodi-n-propylamine	--		0.0098 U	0.0094 U	0.0095 U	0.0095 U	0.011 U	0.015 U
n-Nitrosodiphenylamine	--		0.039 U	0.037 U	0.038 U	0.038 U	0.043 U	0.058 U
Pentachlorophenol	6.7		0.2 U	0.19 U	0.19 U	0.19 U	0.21 U	0.29 U
Phenanthrene	100		0.039 U	0.14	0.25	0.038 U	0.043 U	0.058 U
Phenol	100		0.039 U	0.037 U	0.038 U	0.038 U	0.043 U	0.058 U
Pyrene	100		0.039 U	0.22	0.3	0.038 U	0.043 U	0.058 U

J - Estimated value

U - Indicates that the compound was analyzed for but not detected

DUP - Duplicate sample

mg/kg - Milligrams per kilogram

ft bls - Feet below land surface

NYSDEC - New York State Department of Environmental Conservation

-- No NYSDEC Part 375 Restricted Residential Criteria available

Part 375 - 6 NYCRR Part 375

Bold - Concentration exceeds NYSDEC Part 375 Restricted Residential Criteria

NA - Compound was not analyzed by laboratory

V - Value altered or qualifier added during data validation

R - Sample results rejected by validator

UJ - Analyte was not detected. Associated reported quantitation limit is an estimate

NJ - Detection is tentative in identification and estimated in value

Table 6. Summary of Metals Detected in Soil, Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

	NYSDEC									
	Part 375	Sample Designation:	GWS-OU1-1	GWS-OU1-1 DUP	GWS-OU1-3	GWS-OU1-3 DUP	GWS-OU1-6	GWS-OU1-6	GWS-OU1-8	GWS-OU1-9
Parameter	Restricted	Sample Date:	6/6/2012	6/6/2012	6/4/2012	6/4/2012	6/29/2012	6/29/2012	6/29/2012	7/3/2012
(Concentrations in mg/kg)	Residential	Sample Depth (ft bls):	8-13	8-13	9-12	9-12	9-11	13-15	10-15	14-15
Aluminum	--		12000	11000	5000	6700	7100	9200	8400	3000
Antimony	--		2.8 UJV	2.7 UJV	2.3 UJV	2.3 UJV	2.9 UJV	2.4 UJV	2.5 UJV	2.4 UJV
Arsenic	16		2.8 U	2.7 U	2.3 U	2.3 U	25	2.4 U	2.5 U	2.4 U
Barium	400		74 JV	70 JV	20 JV	32 JV	260 JV	60 JV	65 JV	20 JV
Beryllium	72		0.85 U	0.81 U	0.7 U	0.69 U	0.88 U	0.71 U	0.75 U	0.71 U
Cadmium	4.3		0.85 U	0.81 U	0.7 U	0.69 U	0.88 U	0.71 U	0.75 U	0.71 U
Calcium	--		1500	1500	1200 U	1500	20000	1600	2600	1200 U
Chromium	180		19	17	13	15	25	29	18	14
Cobalt	--		4.9	4.4	2.9 U	3.2	5.7	5.4	3.1 U	2.9 U
Copper	270		13	11	7.6	10	52	15	7.5	5.9 U
Cyanide, Free	27		0.34 U	0.32 U	0.28 U	0.28 U	0.56	0.28 U	0.3 U	0.28 U
Iron	--		17000	14000	7800	8800	17000	25000	6900	12000
Lead	400		21	22	28	32	390	9	250	5.9 U
Magnesium	--		2200	2000	1100	1600	1600	2700	1000	880
Manganese	2000		120 JV	94 JV	48 JV	62 JV	250 JV	100 JV	110 JV	61 JV
Mercury	0.81		0.21	0.17	0.15	0.27	0.96	0.098 U	0.71	0.098 U
Nickel	310		13	12	6.7	8.7	13	16	6.8	5.9 U
Potassium	--		700 U	680 U	580 U	570 U	830	760	620 U	590 U
Selenium	180		2.5 U	2.4 U	2.1 U	2.1 U	2.6 U	2.1 U	2.2 U	2.1 U
Silver	180		2.1 U	2 U	1.7 U	1.7 U	2.2 U	1.8 U	1.9 U	1.8 U
Sodium	--		350 U	340 U	290 U	290 U	380	290 U	310 U	290 U
Thallium	--		1.7 U	1.6 U	1.4 U	1.4 U	1.8 U	1.4 U	1.5 U	1.4 U
Vanadium	--		23	20	17	21	27	43	20	16
Zinc	10000		37	32	21	32	160	36	22	15

J - Estimated value

U - Indicates that the compound was analyzed for but not detected

DUP - Duplicate sample

mg/kg - Milligrams per kilogram

ft bls - Feet below land surface

NYSDEC - New York State Department of Environmental Conservation

-- No NYSDEC Part 375 Restricted Residential Criteria available

Part 375 - 6 NYCRR Part 375

Bold - Concentration exceeds NYSDEC Part 375 Restricted Residential Criteria

NA - Compound was not analyzed by laboratory

V - Value altered or qualifier added during data validation

R - Sample results rejected by validator

UJ - Analyte was not detected. Associated reported quantitation limit is an estimate

NJ - Detection is tentative in identification and estimated in value

Table 6. Summary of Metals Detected in Soil, Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in mg/kg)	NYSDEC	Sample Designation: Sample Date: Sample Depth (ft bls):	GWS-OU1-11	GWS-OU1-11 DUP	GWS-OU1-12	GWS-OU1-13	GWS-OU1-14
	Part 375		7/3/2012	7/3/2012	7/2/2012	7/2/2012	7/2/2012
	Restricted Residential		14-15	14-15	12-14	10-15	13-14
Aluminum	--		6300	5500	4800	2900	13000
Antimony	--		2.2 UJV	2.3 UJV	2.3 UJV	2.6 UJV	3.5 UJV
Arsenic	16		2.2 U	2.3 U	2.3 U	2.6 U	3.5 U
Barium	400		69 JV	33 JV	20 JV	22 JV	120 JV
Beryllium	72		0.67 U	0.68 U	0.68 U	0.77 U	1.1 U
Cadmium	4.3		0.67 U	0.68 U	0.68 U	0.77 U	1.1 U
Calcium	--		1100 U	1200	2100	1500	4500
Chromium	180		23	19	20	12	21
Cobalt	--		6.1	4.3	2.8 U	3.2 U	4.4 U
Copper	270		13	11	12	7	18
Cyanide, Free	27		0.27 U	0.27 U	0.27 U	0.31 U	0.42 U
Iron	--		12000	16000	18000	25000	11000
Lead	400		5.6 U	6.2	5.7	6.4 U	23
Magnesium	--		3200 JV	1800 JV	2200	1300	1600
Manganese	2000		86 JV	95 JV	98 JV	370 JV	120 JV
Mercury	0.81		0.094 U	0.095 U	0.095 U	0.11 U	0.15 U
Nickel	310		15	13	8.1	6.4 U	14
Potassium	--		1500 JV	770 JV	570 U	640 U	880 U
Selenium	180		2 U	2 U	2 U	2.3 U	3.2 U
Silver	180		1.7 U	1.7 U	1.7 U	1.9 U	2.6 U
Sodium	--		280 U	280 U	280 U	320 U	440 U
Thallium	--		1.3 U	1.4 U	1.4 U	1.5 U	2.1 U
Vanadium	--		31	25	30	13	19
Zinc	10000		35	30	20	15	19

J - Estimated value

U - Indicates that the compound was analyzed for but not detected

DUP - Duplicate sample

mg/kg - Milligrams per kilogram

ft bls - Feet below land surface

NYSDEC - New York State Department of Environmental Conservation

-- No NYSDEC Part 375 Restricted Residential Criteria available

Part 375 - 6 NYCRR Part 375

Bold - Concentration exceeds NYSDEC Part 375 Restricted Residential Criteria

NA - Compound was not analyzed by laboratory

V - Value altered or qualifier added during data validation

R - Sample results rejected by validator

UJ - Analyte was not detected. Associated reported quantitation limit is an estimate

NJ - Detection is tentative in identification and estimated in value

Table 7. Summary of Polychlorinated Biphenyls Detected in Soil, Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in mg/kg)	NYSDEC						
	Part 375	Sample Designation:	GWS-OU1-1	GWS-OU1-1 DUP	GWS-OU1-3	GWS-OU1-3 DUP	GWS-OU1-6
	Restricted	Sample Date:	6/6/2012	6/6/2012	6/4/2012	6/4/2012	6/29/2012
	Residential	Sample Depth (ft bls):	8-13	8-13	9-12	9-12	9-11
Aroclor-1016	--		0.035 U	0.034 U	0.029 U	0.029 U	0.037 U
Aroclor-1221	--		0.035 U	0.034 U	0.029 U	0.029 U	0.037 U
Aroclor-1232	--		0.035 U	0.034 U	0.029 U	0.029 U	0.037 U
Aroclor-1242	--		0.035 U	0.034 U	0.029 U	0.029 U	0.037 U
Aroclor-1248	--		0.035 U	0.034 U	0.029 U	0.029 U	0.037 U
Aroclor-1254	--		0.035 U	0.034 U	0.029 U	0.029 U	0.037 U
Aroclor-1260	--		0.035 U	0.034 U	0.029 U	0.029 U	0.037 U
Aroclor-1262	--		0.035 U	0.034 U	0.029 U	0.029 U	0.037 U
Aroclor-1268	--		0.035 U	0.034 U	0.029 U	0.029 U	0.037 U
Total PCBs	1		0.035 U	0.034 U	0.029 U	0.029 U	0.037 U

J - Estimated value

U - Indicates that the compound was analyzed for but not detected

DUP - Duplicate sample

mg/kg - Milligrams per kilogram

ft bls - Feet below land surface

NYSDEC - New York State Department of Environmental Conservation

-- No NYSDEC Part 375 Restricted Residential Criteria available

Part 375 - 6 NYCRR Part 375

Bold - Concentration exceeds NYSDEC Part 375 Restricted Residential Criteria

NA - Compound was not analyzed by laboratory

PCBs - Polychlorinated Biphenyls

Table 7. Summary of Polychlorinated Biphenyls Detected in Soil, Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in mg/kg)	NYSDEC	Sample Designation: Sample Date: Sample Depth (ft bls):	GWS-OU1-6 6/29/2012 13-15	GWS-OU1-8 6/29/2012 10-15	GWS-OU1-9 7/3/2012 14-15	GWS-OU1-11 7/3/2012 14-15	GWS-OU1-11 DUP 7/3/2012 14-15
	Part 375						
	Restricted						
	Residential						
Aroclor-1016	--		0.029 U	0.031 U	0.029 U	0.028 U	0.028 U
Aroclor-1221	--		0.029 U	0.031 U	0.029 U	0.028 U	0.028 U
Aroclor-1232	--		0.029 U	0.031 U	0.029 U	0.028 U	0.028 U
Aroclor-1242	--		0.029 U	0.031 U	0.029 U	0.028 U	0.028 U
Aroclor-1248	--		0.029 U	0.031 U	0.029 U	0.028 U	0.028 U
Aroclor-1254	--		0.029 U	0.031 U	0.029 U	0.028 U	0.028 U
Aroclor-1260	--		0.029 U	0.031 U	0.029 U	0.028 U	0.028 U
Aroclor-1262	--		0.029 U	0.031 U	0.029 U	0.028 U	0.028 U
Aroclor-1268	--		0.029 U	0.031 U	0.029 U	0.028 U	0.028 U
Total PCBs	1		0.029 U	0.031 U	0.029 U	0.028 U	0.028 U

J - Estimated value

U - Indicates that the compound was analyzed for but not detected

DUP - Duplicate sample

mg/kg - Milligrams per kilogram

ft bls - Feet below land surface

NYSDEC - New York State Department of Environmental Conservation

-- No NYSDEC Part 375 Restricted Residential Criteria available

Part 375 - 6 NYCRR Part 375

Bold - Concentration exceeds NYSDEC Part 375 Restricted Residential Criteria

NA - Compound was not analyzed by laboratory

PCBs - Polychlorinated Biphenyls

Table 7. Summary of Polychlorinated Biphenyls Detected in Soil, Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in mg/kg)	NYSDEC				
	Part 375	Sample Designation:	GWS-OU1-12	GWS-OU1-13	GWS-OU1-14
	Restricted	Sample Date:	7/2/2012	7/2/2012	7/2/2012
	Residential	Sample Depth (ft bls):	12-14	10-15	13-14
Aroclor-1016	--		0.028 U	0.032 U	0.044 U
Aroclor-1221	--		0.028 U	0.032 U	0.044 U
Aroclor-1232	--		0.028 U	0.032 U	0.044 U
Aroclor-1242	--		0.028 U	0.032 U	0.044 U
Aroclor-1248	--		0.028 U	0.032 U	0.044 U
Aroclor-1254	--		0.028 U	0.032 U	0.044 U
Aroclor-1260	--		0.028 U	0.032 U	0.044 U
Aroclor-1262	--		0.028 U	0.032 U	0.044 U
Aroclor-1268	--		0.028 U	0.032 U	0.044 U
Total PCBs	1		0.028 U	0.032 U	0.044 U

J - Estimated value

U - Indicates that the compound was analyzed for but not detected

DUP - Duplicate sample

mg/kg - Milligrams per kilogram

ft bls - Feet below land surface

NYSDEC - New York State Department of Environmental Conservation

-- No NYSDEC Part 375 Restricted Residential Criteria available

Part 375 - 6 NYCRR Part 375

Bold - Concentration exceeds NYSDEC Part 375 Restricted Residential Criteria

NA - Compound was not analyzed by laboratory

PCBs - Polychlorinated Biphenyls

Table 8. Summary of Herbicides and Pesticides Detected in Soil, Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in mg/kg)	NYSDEC	Sample Designation: Sample Date: Sample Depth (ft bls):	GWS-OU1-1	GWS-OU1-1 DUP	GWS-OU1-3	GWS-OU1-3 DUP	GWS-OU1-6	GWS-OU1-6
	Part 375							
	Restricted		6/6/2012	6/6/2012	6/4/2012	6/4/2012	6/29/2012	6/29/2012
	Residential		8-13	8-13	9-12	9-12	9-11	13-15
2,4,5-T	--		0.014 U	0.014 U	0.012 U	0.011 U	0.015 URV	0.012 UJV
2,4,5-TP	100		0.014 U	0.014 U	0.012 U	0.011 U	0.015 URV	0.012 UJV
2,4-D	--		0.014 U	0.014 U	0.012 U	0.011 U	0.015 URV	0.012 UJV
4,4'-DDD	13		0.0035 U	0.0034 U	0.0029 U	0.0029 U	0.0037 U	0.0029 U
4,4'-DDE	8.9		0.0035 U	0.0034 U	0.0029 U	0.0029 U	0.0037 U	0.0029 U
4,4'-DDT	7.9		0.0035 U	0.0034 U	0.0029 U	0.0029 U	0.0037 U	0.0029 U
Aldrin	0.097		0.007 U	0.0068 U	0.0058 U	0.0057 U	0.0074 U	0.0059 U
alpha-BHC	0.48		0.0014 U	0.0014 U	0.0012 U	0.0011 U	0.0015 U	0.0012 U
beta-BHC	0.36		0.0014 U	0.0014 U	0.0012 U	0.0011 U	0.0015 U	0.0012 U
Chlordane	--		0.035 U	0.034 U	0.029 U	0.029 U	0.037 U	0.029 U
delta-BHC	100		0.007 U	0.0068 U	0.0058 U	0.0057 U	0.0074 U	0.0059 U
Dicamba	--		0.014 U	0.014 U	0.012 U	0.011 U	0.015 URV	0.012 UJV
Dieldrin	0.2		0.0014 U	0.0014 U	0.0012 U	0.0011 U	0.0015 U	0.0012 U
Endosulfan I	24		0.007 U	0.0068 U	0.0058 U	0.0057 U	0.0074 U	0.0059 U
Endosulfan II	24		0.007 U	0.0068 U	0.0058 U	0.0057 U	0.0074 U	0.0059 U
Endosulfan sulfate	24		0.007 U	0.0068 U	0.0058 U	0.0057 U	0.0074 U	0.0059 U
Endrin aldehyde	--		0.007 U	0.0068 U	0.0058 U	0.0057 U	0.0074 U	0.0059 U
Endrin ketone	--		0.007 U	0.0068 U	0.0058 U	0.0057 U	0.0074 U	0.0059 U
Endrin	11		0.007 U	0.0068 U	0.0058 U	0.0057 U	0.0074 U	0.0059 U
gamma-BHC (Lindane)	1.3		0.0014 U	0.0014 U	0.0012 U	0.0011 U	0.0015 U	0.0012 U
Heptachlor epoxide	--		0.007 U	0.0068 U	0.0058 U	0.0057 U	0.0074 U	0.0059 U
Heptachlor	2.1		0.007 U	0.0068 U	0.0058 U	0.0057 U	0.0074 U	0.0059 U
Methoxychlor	--		0.007 U	0.0068 U	0.0058 U	0.0057 U	0.0074 U	0.0059 U
Toxaphene	--		0.035 U	0.034 U	0.029 U	0.029 U	0.037 U	0.029 U

J - Estimated value

U - Indicates that the compound was analyzed for but not detected

DUP - Duplicate sample

mg/kg - Milligrams per kilogram

ft bls - Feet below land surface

NYSDEC - New York State Department of Environmental Conservation

-- No NYSDEC Part 375 Restricted Residential Criteria available

Part 375 - 6 NYCRR Part 375

Bold - Concentration exceeds NYSDEC Part 375 Restricted Residential Criteria

NA - Compound was not analyzed by laboratory

V - Value altered or qualifier added during data validation

R - Sample results rejected by validator

UJ - Analyte was not detected. The associated reported quantitation limit is an estimate

NJ - Detection is tentative in identification and estimated in value

Table 8. Summary of Herbicides and Pesticides Detected in Soil, Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in mg/kg)	NYSDEC	Sample Designation: Sample Date: Sample Depth (ft bls):	GWS-OU1-8	GWS-OU1-9	GWS-OU1-11	GWS-OU1-11 DUP	GWS-OU1-12	GWS-OU1-13
	Part 375							
	Restricted Residential		6/29/2012 10-15	7/3/2012 14-15	7/3/2012 14-15	7/3/2012 14-15	7/2/2012 12-14	7/2/2012 10-15
2,4,5-T	--		0.012 UJV	0.012 U	0.011 U	0.011 U	0.011 U	0.013 U
2,4,5-TP	100		0.012 UJV	0.012 U	0.011 U	0.011 U	0.011 U	0.013 U
2,4-D	--		0.012 UJV	0.012 U	0.011 U	0.011 U	0.011 U	0.013 U
4,4'-DDD	13		0.0031 U	0.0029 U	0.0043	0.0045	0.0028 U	0.0032 U
4,4'-DDE	8.9		0.0031 U	0.0029 U	0.0028 U	0.0028 U	0.0028 U	0.0032 U
4,4'-DDT	7.9		0.0031 U	0.0029 U	0.0028 U	0.0028 U	0.0028 U	0.0032 U
Aldrin	0.097		0.0063 U	0.0059 U	0.0056 U	0.0057 U	0.0057 U	0.0064 U
alpha-BHC	0.48		0.0013 U	0.0012 U	0.0011 U	0.0011 U	0.0011 U	0.0013 U
beta-BHC	0.36		0.0013 U	0.0012 U	0.0011 U	0.0011 U	0.0011 U	0.0013 U
Chlordane	--		0.031 U	0.029 U	0.028 U	0.028 U	0.028 U	0.032 U
delta-BHC	100		0.0063 U	0.0059 U	0.0056 U	0.0057 U	0.0057 U	0.0064 U
Dicamba	--		0.012 UJV	0.012 U	0.011 U	0.011 U	0.011 U	0.013 U
Dieldrin	0.2		0.0013 U	0.0012 U	0.0011 U	0.0011 U	0.0011 U	0.0013 U
Endosulfan I	24		0.0063 U	0.0059 U	0.0056 U	0.0057 U	0.0057 U	0.0064 U
Endosulfan II	24		0.0063 U	0.0059 U	0.0056 U	0.0057 U	0.0057 U	0.0064 U
Endosulfan sulfate	24		0.0063 U	0.0059 U	0.0056 U	0.0057 U	0.0057 U	0.0064 U
Endrin aldehyde	--		0.0063 U	0.0059 U	0.0056 U	0.0057 U	0.0057 U	0.0064 U
Endrin ketone	--		0.0063 U	0.0059 U	0.0056 U	0.0057 U	0.0057 U	0.0064 U
Endrin	11		0.0063 U	0.0059 U	0.0056 U	0.0057 U	0.0057 U	0.0064 U
gamma-BHC (Lindane)	1.3		0.0013 U	0.0012 U	0.0011 U	0.0011 U	0.0011 U	0.0013 U
Heptachlor epoxide	--		0.0063 U	0.0059 U	0.0056 U	0.0057 U	0.0057 U	0.0064 U
Heptachlor	2.1		0.0063 U	0.0059 U	0.0056 U	0.0057 U	0.0057 U	0.0064 U
Methoxychlor	--		0.0063 U	0.0059 U	0.0056 U	0.0057 U	0.0057 U	0.0064 UJV
Toxaphene	--		0.031 U	0.029 U	0.028 U	0.028 U	0.028 U	0.032 U

J - Estimated value

U - Indicates that the compound was analyzed for but not detected

DUP - Duplicate sample

mg/kg - Milligrams per kilogram

ft bls - Feet below land surface

NYSDEC - New York State Department of Environmental Conservation

-- No NYSDEC Part 375 Restricted Residential Criteria available

Part 375 - 6 NYCRR Part 375

Bold - Concentration exceeds NYSDEC Part 375 Restricted Residential Criteria

NA - Compound was not analyzed by laboratory

V - Value altered or qualifier added during data validation

R - Sample results rejected by validator

UJ - Analyte was not detected. The associated reported quantitation limit is an estimate

NJ - Detection is tentative in identification and estimated in value

Table 8. Summary of Herbicides and Pesticides Detected in Soil, Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in mg/kg)	NYSDEC	Sample Designation: GWS-OU1-14 Sample Date: 7/2/2012 Sample Depth (ft bls): 13-14
	Part 375	
	Restricted	
	Residential	
2,4,5-T	--	0.018 U
2,4,5-TP	100	0.018 U
2,4-D	--	0.018 U
4,4'-DDD	13	0.0044 U
4,4'-DDE	8.9	0.0044 U
4,4'-DDT	7.9	0.0044 U
Aldrin	0.097	0.0088 U
alpha-BHC	0.48	0.0018 U
beta-BHC	0.36	0.0018 U
Chlordane	--	0.044 U
delta-BHC	100	0.0088 U
Dicamba	--	0.018 U
Dieldrin	0.2	0.0018 U
Endosulfan I	24	0.0088 U
Endosulfan II	24	0.0088 U
Endosulfan sulfate	24	0.0088 U
Endrin aldehyde	--	0.0088 U
Endrin ketone	--	0.0088 U
Endrin	11	0.0088 U
gamma-BHC (Lindane)	1.3	0.0018 U
Heptachlor epoxide	--	0.0088 U
Heptachlor	2.1	0.0088 U
Methoxychlor	--	0.0088 U
Toxaphene	--	0.044 U

J - Estimated value

U - Indicates that the compound was analyzed for but not detected

DUP - Duplicate sample

mg/kg - Milligrams per kilogram

ft bls - Feet below land surface

NYSDEC - New York State Department of Environmental Conservation

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Part 375 - 6 NYCRR Part 375

Bold - Concentration exceeds NYSDEC Part 375 Restricted Residential Criteria

NA - Compound was not analyzed by laboratory

V - Value altered or qualifier added during data validation

R - Sample results rejected by validator

UJ - Analyte was not detected. The associated reported quantitation limit is an estimate

NJ - Detection is tentative in identification and estimated in value

Table 9. Summary of Total Organic Carbon Detected in Soil, Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in mg/kg)	Sample Designation:	GWS-OU1-1	GWS-OU1-1 DUP	GWS-OU1-11	GWS-OU1-11 DUP
	Sample Date:	6/6/2012	6/6/2012	7/3/2012	7/3/2012
	Sample Depth (ft bls):	8-13	8-13	14-15	14-15
Total Organic Carbon		13000	10000	4100	4200

J - Estimated value

U - Indicates that the compound was analyzed for but not detected

DUP - Duplicate sample

mg/kg - Milligrams per kilogram

ft bls - Feet below land surface

Table 10. Summary of Volatile Organic Compounds Detected in Groundwater
Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation: Sample Date: Sample Depth (ft bls):	AP-4 6/1/2012	AP-5 6/6/2012	AP-6 6/6/2012	BMW-7 6/4/2012	BMW-7 DUP 6/4/2012	BMW-7S 6/4/2012	MW-3 6/5/2012	MW-7 6/5/2012	GWS-OU1-1 6/6/2012 8-13
1,1,1-Trichloroethane	5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5		0.75 U	0.75 U	0.75 U	1 U	1 U	1 U	1 U	1 U	0.75 U
1,1,2-Trichloroethane	1		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichlorobenzene	5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
1,2,3-Trichloropropane	0.04		NA	NA	NA	NA	NA	NA	NA	NA	1 U
1,2,4-Trichlorobenzene	5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
1,2,4-Trimethylbenzene	5		NA	NA	NA	NA	NA	NA	NA	NA	1 U
1,2-Dibromoethane	--		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
1,2-Dichlorobenzene	3		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	5		NA	NA	NA	NA	NA	NA	NA	NA	1 U
1,3-Dichlorobenzene	3		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichloropropane	5		NA	NA	NA	NA	NA	NA	NA	NA	1 U
1,4-Dichlorobenzene	3		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	--		50 URV	50 URV	50 URV	50 URV	50 URV	50 URV	50 URV	50 URV	50 URV
2-Butanone (MEK)	50		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJV
2-Chloroethyl vinyl ether	--		NA	NA	NA	NA	NA	NA	NA	NA	1 URV
2-Hexanone	50		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4-Methyl-2-pentanone (MIBK)	--		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJV
Acetone	50		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acrolein	5		NA	NA	NA	NA	NA	NA	NA	NA	5 UJV
Acrylonitrile	5		NA	NA	NA	NA	NA	NA	NA	NA	2 U
Benzene	1		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.91	0.5 U
Bromochloromethane	5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
Bromodichloromethane	50		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJV
Bromomethane	5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJV
Carbon disulfide	60		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJV
Carbon tetrachloride	5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	--		1 UJV	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5		3.9	1 U	1 U	9.5	8.3	7.6	460	5.7	1 U
cis-1,3-Dichloropropene	5		1 U	1 U	1 U	1 UJV	1 UJV	1 UJV	1 UJV	1 UJV	1 U
Cyclohexane	--		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
Dibromochloromethane	50		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloropropane	--		1 UJV	1 UJV	1 UJV	1 UJV	1 UJV	1 UJV	1 UJV	1 UJV	NA
Dichlorodifluoromethane	5		1 UJV	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Table 10. Summary of Volatile Organic Compounds Detected in Groundwater
Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation: Sample Date: 6/1/2012 Sample Depth (ft bls):	AP-4 6/6/2012	AP-5 6/6/2012	AP-6 6/6/2012	BMW-7 6/4/2012	BMW-7 DUP 6/4/2012	BMW-7S 6/4/2012	MW-3 6/5/2012	MW-7 6/5/2012	GWS-OU1-1 6/6/2012 8-13
Ethylbenzene	5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Freon 113	--		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m+p-Xylene	5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methyl acetate	--		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
Methylcyclohexane	--		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
Methylene chloride	5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
MTBE	10		0.5 U	0.5 U	0.5 U	0.95	1	0.5 U	1	0.5 U	0.5 U
n-Butylbenzene	5		NA	NA	NA	NA	NA	NA	NA	NA	1 U
n-Propylbenzene	5		NA	NA	NA	NA	NA	NA	NA	NA	1 U
o-Xylene	5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
p-Isopropyltoluene	5		NA	NA	NA	NA	NA	NA	NA	NA	1 U
sec-Butylbenzene	5		NA	NA	NA	NA	NA	NA	NA	NA	1 U
Styrene	5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
t-Butyl Alcohol	--		NA	NA	NA	NA	NA	NA	NA	NA	5 UJV
tert-Butylbenzene	5		NA	NA	NA	NA	NA	NA	NA	NA	1 U
Tetrachloroethene	5		17	1 U	1 U	2	1.4	13	56	1.5	1 UJV
Toluene	5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5		1 U	1 U	1 U	1 U	1 U	1 U	3.4	1 U	1 U
trans-1,3-Dichloropropene	--		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5		2.2	1 U	1 U	1 U	1 U	2.4	59	1.9	1 U
Trichlorofluoromethane	5		1 U	1 UJV	1 UJV	1 UJV	1 UJV	1 UJV	1 UJV	1 UJV	1 UJV
Vinyl chloride	2		1 U	1 U	1 U	11	11	1 U	5.2	1.1	1 U
Xylenes (total)	5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

NYSDEC - New York State Department of Environmental Conservation

AWQSGVs - Ambient Water-Quality Standards and Guidance Values

µg/L -Micrograms per liter

J - Estimated Value

U - Compound was analyzed for but not detected

ft bls - Feet below land surface

DUP - Duplicate

-- No NYSDEC AWQSGV available

Bold - Concentration exceeds NYSDEC AWQSGVs

NA - Compound was not analyzed by laboratory

V - Value altered or qualifier added during data validation

R - Sample results rejected by validator

UJ - Analyte was not detected. The associated reported quantitation limit is an estimate

NJ - Detection is tentative in identification and estimated in value

Table 10. Summary of Volatile Organic Compounds Detected in Groundwater
Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation: Sample Date: Sample Depth (ft bls):	GWS-OU1-1 6/6/2012 25-30	GWS-OU1-2 6/6/2012 25-30	GWS-OU1-2 DUP 6/6/2012 25-30	GWS-OU1-3 6/6/2012 8-13	GWS-OU1-3 6/6/2012 25-30	GWS-OU1-4 6/27/2012 25-30
1,1,1-Trichloroethane	5		1 U	1 U	1 U	5 U	1 UJV	1 U
1,1,2,2-Tetrachloroethane	5		0.75 U	0.75 U	0.75 U	3.7 U	0.75 UJV	0.75 U
1,1,2-Trichloroethane	1		1 U	1 U	1 U	5 U	1 UJV	1 U
1,1-Dichloroethane	5		1 U	1 U	1 U	5 U	1 UJV	1 U
1,1-Dichloroethene	5		1.9	2.2 JV	2.4 JV	5 U	11 JV	8
1,2,3-Trichlorobenzene	5		NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	0.04		1 U	1 U	1 U	5 U	1 UJV	1 U
1,2,4-Trichlorobenzene	5		NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	5		1 U	1 U	1 U	350	21 JV	1 U
1,2-Dibromoethane	--		NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	3		1 U	1 U	1 U	5 U	1 UJV	1 U
1,2-Dichloroethane	0.6		0.5 U	0.5 U	0.5 U	2.5 U	0.5 UJV	0.5 U
1,2-Dichloropropane	1		1 U	1 U	1 U	5 U	1 UJV	1 U
1,3,5-Trimethylbenzene	5		1 U	1 U	1 U	16	1 UJV	1 U
1,3-Dichlorobenzene	3		1 U	1 U	1 U	5 U	1 UJV	1 U
1,3-Dichloropropane	5		1 U	1 U	1 U	5 U	1 UJV	1 U
1,4-Dichlorobenzene	3		1 U	1 U	1 U	5 U	1 UJV	1 U
1,4-Dioxane	--		50 URV	50 URV	50 URV	250 URV	50 URV	50 URV
2-Butanone (MEK)	50		1 UJV	1 U	1 U	5 U	1 UJV	1 U
2-Chloroethyl vinyl ether	--		1 URV	1 URV	1 URV	5 URV	1 URV	1.0 URV
2-Hexanone	50		1 U	1 U	1 U	5 U	1 UJV	1 U
4-Methyl-2-pentanone (MIBK)	--		1 UJV	1 U	1 U	5 U	1 UJV	1 U
Acetone	50		10 U	10 U	10 U	50 U	10 UJV	10 U
Acrolein	5		5 UJV	5 UJV	5 UJV	25 UJV	5 UJV	5 UJV
Acrylonitrile	5		2 U	2 U	2 U	10 U	2 UJV	2 U
Benzene	1		0.5 U	0.5 U	0.5 U	3.8	0.5 UJV	0.5 U
Bromochloromethane	5		NA	NA	NA	NA	NA	NA
Bromodichloromethane	50		1 U	1 U	1 U	5 U	1 UJV	1 U
Bromoform	50		1 UJV	1 U	1 U	5 U	1 UJV	1 U
Bromomethane	5		1 UJV	1 U	1 U	5 U	1 UJV	1 U
Carbon disulfide	60		1 UJV	1 U	1 U	5 U	1 UJV	1 U
Carbon tetrachloride	5		1 U	1 U	1 U	5 U	1 UJV	1 U
Chlorobenzene	5		1 U	1 U	1 U	5 U	1 UJV	1 U
Chloroethane	5		1 U	1 U	1 U	5 U	1 UJV	1 U
Chloroform	7		1 U	1 U	1 U	5 U	1 UJV	1 U
Chloromethane	--		1 U	1 U	1 U	5 U	1 UJV	1 U
cis-1,2-Dichloroethene	5		1100	1400 JV	2500 JV	9.5	7200 JV	3500
cis-1,3-Dichloropropene	5		1 U	1 U	1 U	5 U	1 UJV	1 U
Cyclohexane	--		NA	NA	NA	NA	NA	NA
Dibromochloromethane	50		1 U	1 U	1 U	5 U	1 UJV	1 U
Dibromochloropropane	--		NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	5		1 U	1 U	1 U	5 U	1 U	1 U

Table 10. Summary of Volatile Organic Compounds Detected in Groundwater
Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation: Sample Date: Sample Depth (ft bls):	GWS-OU1-1 6/6/2012 25-30	GWS-OU1-2 6/6/2012 25-30	GWS-OU1-2 DUP 6/6/2012 25-30	GWS-OU1-3 6/6/2012 8-13	GWS-OU1-3 6/6/2012 25-30	GWS-OU1-4 6/27/2012 25-30
Ethylbenzene	5		1 U	1 U	1 U	190	2.2 JV	1 U
Freon 113	--		1 U	1 U	1 U	5 U	1 UJV	1 U
Isopropylbenzene	5		1 U	1 U	1 U	300	2.8 JV	1 U
m+p-Xylene	5		1 U	1 U	1 U	6.8	1 UJV	1 U
Methyl acetate	--		NA	NA	NA	NA	NA	NA
Methylcyclohexane	--		NA	NA	NA	NA	NA	NA
Methylene chloride	5		1 U	1 U	1 U	5 U	1 UJV	1 U
MTBE	10		1.1	5.4 JV	5.3 JV	2.5 U	15 JV	12
n-Butylbenzene	5		1 U	1 U	1 U	38	4.8 JV	1 U
n-Propylbenzene	5		1 U	1 U	1 U	380	7.1 JV	1 U
o-Xylene	5		1 U	1 U	1 U	6.7	1 UJV	1 U
p-Isopropyltoluene	5		1 U	1 U	1 U	8.5	1 UJV	1 U
sec-Butylbenzene	5		1 U	1 U	1 U	42	1.3 JV	1 U
Styrene	5		1 U	1 U	1 U	5 U	1 UJV	1 U
t-Butyl Alcohol	--		5 UJV	5 UJV	5 UJV	25 UJV	5 UJV	5 UJV
tert-Butylbenzene	5		1 U	1 U	1 U	5 U	1 UJV	1 U
Tetrachloroethene	5		18 JV	330 JV	770 JV	5 U	68 JV	100
Toluene	5		1 U	1 U	1 U	5.1	1 UJV	1 U
trans-1,2-Dichloroethene	5		11	8.2 JV	9.2	5 U	18 JV	17
trans-1,3-Dichloropropene	--		1 U	1 U	1 U	5 U	1 UJV	1 U
Trichloroethene	5		21	410 JV	440 JV	5 U	140 JV	100
Trichlorofluoromethane	5		1 UJV	1 UJV	1 UJV	5 UJV	1 UJV	1 U
Vinyl chloride	2		51	19 JV	22 JV	5 U	73 JV	54
Xylenes (total)	5		1 U	1 U	1 U	13.5	1 UJV	1 U

NYSDEC - New York State Department of Environmental Conservation

AWQSGVs - Ambient Water-Quality Standards and Guidance Values

µg/L -Micrograms per liter

J - Estimated Value

U - Compound was analyzed for but not detected

ft bls - Feet below land surface

DUP - Duplicate

-- No NYSDEC AWQSGV available

Bold - Concentration exceeds NYSDEC AWQSGVs

NA - Compound was not analyzed by laboratory

V - Value altered or qualifier added during data validation

R - Sample results rejected by validator

UJ - Analyte was not detected. The associated reported quantitation limit is an estimate

NJ - Detection is tentative in identification and estimated in value

Table 10. Summary of Volatile Organic Compounds Detected in Groundwater
Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation: Sample Date: Sample Depth (ft bls):	GWS-OU1-5 6/28/2012 5-10	GWS-OU1-5 6/28/2012 25-30	GWS-OU1-6 6/29/2012 8-13	GWS-OU1-6 6/29/2012 20-25	GWS-OU1-7 6/28/2012 5-10	GWS-OU1-7 6/28/2012 10-15
1,1,1-Trichloroethane	5		20 U	1 U	1 U	1 U	50 U	1 U
1,1,2,2-Tetrachloroethane	5		20 U	1 U	1 U	1 U	50 U	1 U
1,1,2-Trichloroethane	1		20 U	1 U	1 U	1 U	50 U	1 U
1,1-Dichloroethane	5		20 U	1 U	1 U	1 U	50 U	1 U
1,1-Dichloroethene	5		20 U	1 U	1 U	1.9	50 U	1 U
1,2,3-Trichlorobenzene	5		NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	0.04		20 U	1 U	1 U	1 U	50 U	1 U
1,2,4-Trichlorobenzene	5		NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	5		20 U	1 U	1 U	1 U	50 U	1 U
1,2-Dibromoethane	--		NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	3		20 U	1 U	1 U	1 U	50 U	1 U
1,2-Dichloroethane	0.6		10 U	0.5 U	0.5 U	0.5 U	25 U	0.5 U
1,2-Dichloropropane	1		20 U	1 U	1 U	1 U	50 U	1 U
1,3,5-Trimethylbenzene	5		20 U	1 U	1 U	1 U	50 U	1 U
1,3-Dichlorobenzene	3		20 U	1 U	1 U	1 U	50 U	1 U
1,3-Dichloropropane	5		20 U	1 U	1 U	1 U	50 U	1 U
1,4-Dichlorobenzene	3		20 U	1 U	1 U	1 U	50 U	1 U
1,4-Dioxane	--		1000 URV	50 URV	50 URV	50 URV	2500 URV	50 URV
2-Butanone (MEK)	50		20 U	1 U	1 U	1 U	50 U	1 U
2-Chloroethyl vinyl ether	--		20 URV	1.0 URV	1.0 URV	1.0 URV	50 URV	1.0 URV
2-Hexanone	50		20 U	1 U	1 U	1 U	50 U	1 U
4-Methyl-2-pentanone (MIBK)	--		20 UJV	1 UJV	1 U	1 U	50 UJV	1 U
Acetone	50		200 U	10 U	10 U	10 U	500 U	10 U
Acrolein	5		100 UJV	5 UJV	5 UJV	5 UJV	250 UJV	5 UJV
Acrylonitrile	5		40 U	2 U	2 U	2 U	100 U	2 U
Benzene	1		10 U	0.5 U	0.98	0.5 U	25 U	0.5 U
Bromochloromethane	5		NA	NA	NA	NA	NA	NA
Bromodichloromethane	50		20 U	1 U	1 U	1 U	50 U	1 U
Bromoform	50		20 U	1 U	1 UJV	1 UJV	50 U	1 UJV
Bromomethane	5		20 U	1 U	1 U	1 U	50 U	1 U
Carbon disulfide	60		20 U	1 U	1 U	1 U	50 U	1 U
Carbon tetrachloride	5		20 U	1 U	1 U	1 U	50 U	1 U
Chlorobenzene	5		20 U	1 U	1 U	1 U	50 U	1 U
Chloroethane	5		20 U	1 U	1 U	1 U	50 U	1 U
Chloroform	7		20 U	1 U	1 U	1 U	50 U	1 U
Chloromethane	--		20 U	1 U	1 U	1 U	50 U	1 U
cis-1,2-Dichloroethene	5		1400	11	470	790	4400	770
cis-1,3-Dichloropropene	5		20 UJV	1 UJV	1 U	1 U	50 UJV	1 U
Cyclohexane	--		NA	NA	NA	NA	NA	NA
Dibromochloromethane	50		20 U	1 U	1 U	1 U	50 U	1 U
Dibromochloropropane	--		NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	5		20 UJV	1 UJV	1 U	1 U	50 UJV	1 U

Table 10. Summary of Volatile Organic Compounds Detected in Groundwater
Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation: Sample Date: Sample Depth (ft bls):	GWS-OU1-5 6/28/2012 5-10	GWS-OU1-5 6/28/2012 25-30	GWS-OU1-6 6/29/2012 8-13	GWS-OU1-6 6/29/2012 20-25	GWS-OU1-7 6/28/2012 5-10	GWS-OU1-7 6/28/2012 10-15
Ethylbenzene	5		20 U	1 U	1 U	1 U	50 U	1 U
Freon 113	--		20 U	1 U	1 U	1 U	50 U	1 U
Isopropylbenzene	5		20 U	1 U	1 U	1 U	50 U	1 U
m+p-Xylene	5		20 U	1 U	1 U	1 U	50 U	1 U
Methyl acetate	--		NA	NA	NA	NA	NA	NA
Methylcyclohexane	--		NA	NA	NA	NA	NA	NA
Methylene chloride	5		20 U	1 U	1 U	1 U	50 U	1 U
MTBE	10		10 U	11	1.1	1.4	25 U	0.5 U
n-Butylbenzene	5		20 U	1 U	1 U	1 U	50 U	1 U
n-Propylbenzene	5		20 U	1 U	1 U	1 U	50 U	1 U
o-Xylene	5		20 U	1 U	1 U	1 U	50 U	1 U
p-Isopropyltoluene	5		20 U	1 U	1 U	1 U	50 U	1 U
sec-Butylbenzene	5		20 U	1 U	1 U	1 U	50 U	1 U
Styrene	5		20 UJV	1 UJV	1 U	1 U	50 UJV	1 U
t-Butyl Alcohol	--		100 UJV	5 UJV	5 UJV	5 UJV	250 UJV	5 UJV
tert-Butylbenzene	5		20 U	1 U	1 U	1 U	50 U	1 U
Tetrachloroethene	5		58	3.2	98	5800	50 U	15
Toluene	5		20 U	1 U	1 U	1 U	50 U	4
trans-1,2-Dichloroethene	5		20 U	1 U	2.8	5.4	50 U	3.2
trans-1,3-Dichloropropene	--		20 UJV	1 UJV	1 U	1 U	50 UJV	1 U
Trichloroethene	5		20 U	1 U	22	1400	50 U	5.5
Trichlorofluoromethane	5		20 U	1 U	1 U	1 U	50 U	1 U
Vinyl chloride	2		550	5	1100	5.2	470	440
Xylenes (total)	5		20 U	1 U	1 U	1 U	50 U	1 U

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AWQSGVs - Ambient Water-Quality Standards and Guidance Values

µg/L -Micrograms per liter

J - Estimated Value

U - Compound was analyzed for but not detected

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Table 10. Summary of Volatile Organic Compounds Detected in Groundwater
Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation: Sample Date: Sample Depth (ft bls):	GWS-OU1-7 DUP 6/28/2012 10-15	GWS-OU1-8 6/29/2012 8-13	GWS-OU1-9 7/3/2012 10-15	GWS-OU1-9 7/3/2012 15-20	GWS-OU1-9 7/3/2012 20-25	GWS-OU1-9 7/3/2012 25-30
1,1,1-Trichloroethane	5		1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5		1 U	0.75 U	0.75 U	0.75 U	0.75 U	1 UJV
1,1,2-Trichloroethane	1		1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5		1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	5		1 U	2.8	25	5.9	4.7	1 U
1,2,3-Trichlorobenzene	5		NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	0.04		1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	5		NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	5		1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	--		NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	3		1 U	1 U	1 U	1 U	1 U	1 UJV
1,2-Dichloroethane	0.6		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1		1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	5		1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3		1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichloropropane	5		1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3		1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	--		50 URV	50 URV	50 URV	50 URV	50 URV	50 URV
2-Butanone (MEK)	50		1 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethyl vinyl ether	--		1.0 URV	1.0 URV	1.0 URV	1.0 URV	1.0 URV	1.0 URV
2-Hexanone	50		1 U	1 U	1 U	1 U	1 U	1 U
4-Methyl-2-pentanone (MIBK)	--		1 U	1 U	1 U	1 U	1 U	1 U
Acetone	50		10 U	10 U	10 U	10 U	10 U	10 U
Acrolein	5		5 UJV	5 UJV	5 UJV	5 UJV	5 UJV	5 UJV
Acrylonitrile	5		2 U	2 U	2 UJV	2 UJV	2 UJV	2 UJV
Benzene	1		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromochloromethane	5		NA	NA	NA	NA	NA	NA
Bromodichloromethane	50		1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50		1 UJV	1 U	1 UJV	1 UJV	1 UJV	1 UJV
Bromomethane	5		1 U	1 U	1 U	1 U	1 U	1 U
Carbon disulfide	60		1 U	1 U	1 U	1 U	1 U	1 UJV
Carbon tetrachloride	5		1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5		1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5		1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7		1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	--		1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5		730	3200	11000	2600	1900	11
cis-1,3-Dichloropropene	5		1 U	1 U	1 U	1 U	1 U	1 U
Cyclohexane	--		NA	NA	NA	NA	NA	NA
Dibromochloromethane	50		1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloropropane	--		NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	5		1 U	1 U	1 U	1 U	1 U	1 U

Table 10. Summary of Volatile Organic Compounds Detected in Groundwater
Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation: Sample Date: Sample Depth (ft bls):	GWS-OU1-7 DUP 6/28/2012 10-15	GWS-OU1-8 6/29/2012 8-13	GWS-OU1-9 7/3/2012 10-15	GWS-OU1-9 7/3/2012 15-20	GWS-OU1-9 7/3/2012 20-25	GWS-OU1-9 7/3/2012 25-30
Ethylbenzene	5		1 U	1 U	1 U	1 U	1 U	1 U
Freon 113	--		1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	5		1 U	1 U	1 U	1 U	1 U	1 U
m+p-Xylene	5		1 U	1 U	1 U	1 U	1 U	1 U
Methyl acetate	--		NA	NA	NA	NA	NA	NA
Methylcyclohexane	--		NA	NA	NA	NA	NA	NA
Methylene chloride	5		1 U	1 U	1 U	1 U	1 U	1 U
MTBE	10		0.5 U	0.5 U	0.5 U	0.5 U	2.5	3.9
n-Butylbenzene	5		1 U	1 U	1 U	1 U	1 U	1 U
n-Propylbenzene	5		1 U	1 U	1 U	1 U	1 U	1 UJV
o-Xylene	5		1 U	1 U	1 U	1 U	1 U	1 U
p-Isopropyltoluene	5		1 U	1 U	1 U	1 U	1 U	1 U
sec-Butylbenzene	5		1 U	1 U	1 U	1 U	1 U	1 UJV
Styrene	5		1 U	1 U	1 U	1 U	1 U	1 U
t-Butyl Alcohol	--		5 UJV	5 UJV	5 UJV	5 UJV	5 UJV	5 UJV
tert-Butylbenzene	5		1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5		11	36	340	730	1500	250
Toluene	5		4.2	1 U	1.1	1 U	1 U	1 U
trans-1,2-Dichloroethene	5		3	8.3	64	20	13	1 U
trans-1,3-Dichloropropene	--		1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5		5.1	21	460	900	650	79
Trichlorofluoromethane	5		1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2		460	410	2200	250	87	2.1
Xylenes (total)	5		1 U	1 U	1 U	1 U	1 U	1 U

NYSDEC - New York State Department of Environmental Conservation

AWQSGVs - Ambient Water-Quality Standards and Guidance Values

µg/L -Micrograms per liter

J - Estimated Value

U - Compound was analyzed for but not detected

ft bls - Feet below land surface

DUP - Duplicate

-- No NYSDEC AWQSGV available

Bold - Concentration exceeds NYSDEC AWQSGVs

NA - Compound was not analyzed by laboratory

V - Value altered or qualifier added during data validation

R - Sample results rejected by validator

UJ - Analyte was not detected. The associated reported quantitation limit is an estimate

NJ - Detection is tentative in identification and estimated in value

Table 10. Summary of Volatile Organic Compounds Detected in Groundwater
Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation: Sample Date: Sample Depth (ft bls):	GWS-OU1-9 DUP 7/3/2012 25-30	GWS-OU1-10 7/5/2012 15-20	GWS-OU1-10 7/5/2012 20-25	GWS-OU1-10 7/5/2012 25-30	GWS-OU1-10 6/27/2012 45-50	GWS-OU1-10 6/27/2012 65-70
1,1,1-Trichloroethane	5		1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5		1 UJV	1 UJV	1 U	1 U	0.75 U	0.75 U
1,1,2-Trichloroethane	1		1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5		1 U	1 U	1 UJV	1 UJV	1 U	1 U
1,1-Dichloroethene	5		1 U	1.5	1 U	1 U	1 U	1 U
1,2,3-Trichlorobenzene	5		NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	0.04		1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	5		NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	5		1 U	1.3	1 U	1 U	1 U	1 U
1,2-Dibromoethane	--		NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	3		1 UJV	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1		1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	5		1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3		1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichloropropane	5		1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3		1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	--		50 URV	50 URV	50 URV	50 URV	50 URV	50 URV
2-Butanone (MEK)	50		1 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethyl vinyl ether	--		1.0 URV	1.0 URV	1.0 URV	1.0 URV	1.0 URV	1.0 URV
2-Hexanone	50		1 U	1 U	1 U	1 U	1 UJV	1 UJV
4-Methyl-2-pentanone (MIBK)	--		1 U	1 U	1 U	1 U	1 UJV	1 UJV
Acetone	50		10 U	10 U	10 U	10 U	10 U	310
Acrolein	5		5 UJV	5 UJV	5 UJV	5 UJV	5 UJV	5 UJV
Acrylonitrile	5		2 UJV	2 UJV	2 UJV	2 UJV	2 U	2 U
Benzene	1		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromochloromethane	5		NA	NA	NA	NA	NA	NA
Bromodichloromethane	50		1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50		1 UJV	1 U	1 U	1 U	1 UJV	1 UJV
Bromomethane	5		1 U	1 U	1 U	1 U	1 U	1 U
Carbon disulfide	60		1 UJV	1 UJV	1 U	1 U	1 U	1 U
Carbon tetrachloride	5		1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5		1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5		1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7		1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	--		1 U	1 U	1 U	1 U	1 UJV	1 UJV
cis-1,2-Dichloroethene	5		11	790	1 UJV	1 UJV	1 U	33
cis-1,3-Dichloropropene	5		1 U	1 U	1 U	1 U	1 U	1 U
Cyclohexane	--		NA	NA	NA	NA	NA	NA
Dibromochloromethane	50		1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloropropane	--		NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	5		1 U	1 U	1 UJV	1 UJV	1 U	1 U

**Table 10. Summary of Volatile Organic Compounds Detected in Groundwater
Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York**

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation: Sample Date: Sample Depth (ft bls):	GWS-OU1-9 DUP 7/3/2012 25-30	GWS-OU1-10 7/5/2012 15-20	GWS-OU1-10 7/5/2012 20-25	GWS-OU1-10 7/5/2012 25-30	GWS-OU1-10 6/27/2012 45-50	GWS-OU1-10 6/27/2012 65-70
Ethylbenzene	5		1 U	1 U	1 U	1 U	1 U	1 U
Freon 113	--		1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	5		1 U	1 UJV	1 UJV	1 UJV	1 U	1 U
m+p-Xylene	5		1 U	1 U	1 U	1 U	1 U	1 U
Methyl acetate	--		NA	NA	NA	NA	NA	NA
Methylcyclohexane	--		NA	NA	NA	NA	NA	NA
Methylene chloride	5		1 U	1 U	1 U	1 U	1 U	1 U
MTBE	10		4.4	0.5 U	3.4	2.2	0.5 U	0.5 U
n-Butylbenzene	5		1 U	1 U	1 U	1 U	1 U	1 U
n-Propylbenzene	5		1 UJV	1 UJV	1 U	1 U	1 U	1 U
o-Xylene	5		1 U	1 U	1 U	1 U	1 U	1 U
p-Isopropyltoluene	5		1 U	1 U	1 U	1 U	1 U	1 U
sec-Butylbenzene	5		1 UJV	1 U	1 U	1 U	1 U	1 U
Styrene	5		1 U	1 U	1 UJV	1 UJV	1 U	1 U
t-Butyl Alcohol	--		5 UJV	5 UJV	5 UJV	5 UJV	5 UJV	5 UJV
tert-Butylbenzene	5		1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5		280	980	4	1.3	3.3	8.5
Toluene	5		1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5		1 U	4	1.2	1 U	1 U	1 U
trans-1,3-Dichloropropene	--		1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5		74	400	24	1 U	1 U	2.3
Trichlorofluoromethane	5		1 U	1 U	1 UJV	1 UJV	1 U	1 U
Vinyl chloride	2		2.6	190	5.6	1 U	1 U	6.3
Xylenes (total)	5		1 U	1 U	1 U	1 U	1 U	1 U

NYSDEC - New York State Department of Environmental Conservation

AWQSGVs - Ambient Water-Quality Standards and Guidance Values

µg/L -Micrograms per liter

J - Estimated Value

U - Compound was analyzed for but not detected

ft bls - Feet below land surface

DUP - Duplicate

-- No NYSDEC AWQSGV available

Bold - Concentration exceeds NYSDEC AWQSGVs

NA - Compound was not analyzed by laboratory

V - Value altered or qualifier added during data validation

R - Sample results rejected by validator

UJ - Analyte was not detected. The associated reported quantitation limit is an estimate

NJ - Detection is tentative in identification and estimated in value

Table 10. Summary of Volatile Organic Compounds Detected in Groundwater
Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation: Sample Date: Sample Depth (ft bls):	GWS-OU1-11 7/3/2012 10-15	GWS-OU1-11 7/3/2012 15-20	GWS-OU1-11 7/2/2012 20-25	GWS-OU1-12 7/2/2012 8-13	GWS-OU1-13 7/2/2012 10-15	GWS-OU1-13 7/2/2012 23-28
1,1,1-Trichloroethane	5		10 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5		7.5 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 UJV
1,1,2-Trichloroethane	1		10 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5		10 U	1 U	1 U	1 U	3.2	1
1,1-Dichloroethene	5		27	6.1	1 U	1 U	8	1 U
1,2,3-Trichlorobenzene	5		NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	0.04		10 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	5		NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	5		64	15	1 U	1 U	1 U	1 U
1,2-Dibromoethane	--		NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	3		10 U	2	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6		5 U	0.5 U	0.5 U	0.5 U	1.3	1.2
1,2-Dichloropropane	1		10 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	5		30	5.5	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3		10 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichloropropane	5		10 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3		10 U	1.5	1 U	1 U	1 U	1 U
1,4-Dioxane	--		500 URV	50 URV	50 URV	50 URV	50 URV	76 RV
2-Butanone (MEK)	50		10 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethyl vinyl ether	--		10 URV	1.0 URV	1.0 URV	1.0 URV	1.0 URV	1.0 URV
2-Hexanone	50		10 U	1 U	1 U	1 UJV	1 U	1 UJV
4-Methyl-2-pentanone (MIBK)	--		10 U	1 U	1 U	1 UJV	1 U	1 UJV
Acetone	50		100 U	10 U	10 U	10 U	10 U	10 U
Acrolein	5		50 UJV	5 UJV	5 UJV	5 UJV	5 UJV	5 UJV
Acrylonitrile	5		20 UJV	2 UJV	2 UJV	2 U	2 UJV	2 UJV
Benzene	1		5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromochloromethane	5		NA	NA	NA	NA	NA	NA
Bromodichloromethane	50		10 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50		10 UJV	1 UJV	1 UJV	1 UJV	1 UJV	1 UJV
Bromomethane	5		10 U	1 U	1 U	1 U	1 U	1 U
Carbon disulfide	60		10 U	1 U	1 U	1 UJV	1 U	1 UJV
Carbon tetrachloride	5		10 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5		10 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5		10 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7		10 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	--		10 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5		8500	2100	4	1 U	1 U	1 U
cis-1,3-Dichloropropene	5		10 U	1 U	1 U	1 UJV	1 U	1 UJV
Cyclohexane	--		NA	NA	NA	NA	NA	NA
Dibromochloromethane	50		10 U	1 U	1 U	1 U	1 U	1 U
Dibromochloropropane	--		NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	5		10 U	1 U	1 U	1 U	1 U	1 U

Table 10. Summary of Volatile Organic Compounds Detected in Groundwater
Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation: Sample Date: Sample Depth (ft bls):	GWS-OU1-11 7/3/2012 10-15	GWS-OU1-11 7/3/2012 15-20	GWS-OU1-11 7/2/2012 20-25	GWS-OU1-12 7/2/2012 8-13	GWS-OU1-13 7/2/2012 10-15	GWS-OU1-13 7/2/2012 23-28
Ethylbenzene	5		10 U	1 U	1 U	1 U	1 U	1 U
Freon 113	--		10 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	5		10 U	1 U	1 U	1 U	1 U	1 U
m+p-Xylene	5		10 U	2.1	1 U	1 U	1 U	1 U
Methyl acetate	--		NA	NA	NA	NA	NA	NA
Methylcyclohexane	--		NA	NA	NA	NA	NA	NA
Methylene chloride	5		10 U	1 U	1 U	1 U	1 U	1 U
MTBE	10		5 U	2.6	3.2	1.1 JV	1.1	0.5 UJV
n-Butylbenzene	5		10 U	1 U	1 U	1 U	1 U	1 U
n-Propylbenzene	5		10 U	2.1	1 U	1 U	1 U	1 U
o-Xylene	5		10 U	2.2	1 U	1 U	1 U	1 U
p-Isopropyltoluene	5		10 U	1 U	1 U	1 U	1 U	1 U
sec-Butylbenzene	5		10 U	1 U	1 U	1 U	1 U	1 U
Styrene	5		10 U	1 U	1 U	1 U	1 U	1 U
t-Butyl Alcohol	--		50 UJV	5 UJV	5 UJV	5 UJV	5 UJV	5 UJV
tert-Butylbenzene	5		10 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5		90000	24000	320	1 U	1 U	1 U
Toluene	5		10 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5		95	21	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	--		10 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5		4600	1300	5.5	1 U	3.9	1 U
Trichlorofluoromethane	5		10 U	1 U	1 U	1 UJV	1 U	1 UJV
Vinyl chloride	2		750	150	1 U	1 U	1 U	1 U
Xylenes (total)	5		10 U	4.3	1 U	1 U	1 U	1 UJV

NYSDEC - New York State Department of Environmental Conservation

AWQSGVs - Ambient Water-Quality Standards and Guidance Values

µg/L -Micrograms per liter

J - Estimated Value

U - Compound was analyzed for but not detected

ft bls - Feet below land surface

DUP - Duplicate

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NA - Compound was not analyzed by laboratory

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Table 10. Summary of Volatile Organic Compounds Detected in Groundwater
Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation: Sample Date: Sample Depth (ft bls):	GWS-OU1-14 7/2/2012 10-15	MW-D1 3/14/2013	MW-D1I 3/14/2013	MW-D2 3/14/2013	MW-D2I 3/14/2013	MW-D3 3/14/2013	MW-D3 DUP 3/14/2013	MW-D3I 3/14/2013
1,1,1-Trichloroethane	5		1 U	200 U	1 U	10 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5		0.75 U	200 U	1 U	10 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1		1 U	200 U	1 U	10 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5		1 U	200 U	1 U	10 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	5		1 U	200 U	1 U	55.9	0.76 J	2	2.3	1 U
1,2,3-Trichlorobenzene	5		NA	1000 U	5 U	50 U	5 U	5 U	5 U	5 U
1,2,3-Trichloropropane	0.04		1 U	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	5		NA	1000 U	5 U	50 U	5 U	5 U	5 U	5 U
1,2,4-Trimethylbenzene	5		1 U	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	--		NA	400 U	2 U	20 U	2 U	2 U	2 U	2 U
1,2-Dichlorobenzene	3		1 U	200 U	1 U	10 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6		0.5 U	200 U	1 U	10 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1		1 U	200 U	1 U	10 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	5		1 U	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	3		1 U	200 U	1 U	10 U	1 U	1 U	1 U	1 U
1,3-Dichloropropane	5		1 U	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	3		1 U	200 U	1 U	10 U	1 U	1 U	1 U	1 U
1,4-Dioxane	--		50 URV	25000 U	130 U	1300 U	130 U	130 U	130 U	130 U
2-Butanone (MEK)	50		1 U	2000 U	10 U	100 U	10 U	10 U	10 U	10 U
2-Chloroethyl vinyl ether	--		1.0 URV	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	50		1 U	1000 U	5 U	50 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone (MIBK)	--		1 U	1000 U	5 U	50 U	5 U	5 U	5 U	5 U
Acetone	50		22	2000 U	5.8 J	100 U	24.8	10 U	10 U	10 U
Acrolein	5		5 UJV	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	5		2 U	NA	NA	NA	NA	NA	NA	NA
Benzene	1		0.5 U	200 U	1 U	10 U	1 U	1 U	1 U	1 U
Bromochloromethane	5		NA	1000 U	5 U	50 U	5 U	5 U	5 U	5 U
Bromodichloromethane	50		1 U	200 U	1 U	10 U	1 U	1 U	1 U	1 U
Bromoform	50		1 U	800 U	4 U	40 U	4 U	4 U	4 U	4 U
Bromomethane	5		1 U	400 U	2 U	20 U	2 U	2 U	2 U	2 U
Carbon disulfide	60		1 U	400 U	2 U	20 U	2 U	2 U	2 U	0.56 J
Carbon tetrachloride	5		1 U	200 U	1 U	10 U	1 U	1 U	1 U	1 U
Chlorobenzene	5		1 U	200 U	1 U	10 U	1 U	1 U	1 U	1 U
Chloroethane	5		1 U	200 U	1 U	10 U	1 U	1 U	1 U	1 U
Chloroform	7		1 U	200 U	1 U	10 U	1 U	1 U	1 U	1 U
Chloromethane	--		1 U	200 U	1 U	10 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5		3.5	4310	26.8	23500	391 JV	373	326	40.6 JV
cis-1,3-Dichloropropene	5		1 U	200 U	1 U	10 U	1 U	1 U	1 U	1 U
Cyclohexane	--		NA	1000 U	5 U	50 U	5 U	5 U	5 U	5 U
Dibromochloromethane	50		1 U	200 U	1 U	10 U	1 U	1 U	1 U	1 U
Dibromochloropropane	--		NA	2000 U	10 U	100 U	10 U	10 U	10 U	10 U
Dichlorodifluoromethane	5		1 U	1000 U	5 U	50 U	5 U	5 U	5 U	5 U

Table 10. Summary of Volatile Organic Compounds Detected in Groundwater
Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation: Sample Date: Sample Depth (ft bls):	GWS-OU1-14 7/2/2012 10-15	MW-D1 3/14/2013	MW-D1I 3/14/2013	MW-D2 3/14/2013	MW-D2I 3/14/2013	MW-D3 3/14/2013	MW-D3 DUP 3/14/2013	MW-D3I 3/14/2013
Ethylbenzene	5		1 U	200 U	1 U	10 U	1 U	1 U	1 U	1 U
Freon 113	--		1 U	1000 U	5 U	50 U	5 U	5 U	5 U	5 U
Isopropylbenzene	5		1 U	400 U	2 U	20 U	2 U	2 U	2 U	2 U
m+p-Xylene	5		1 U	200 U	1 U	10 U	1 U	1 U	1 U	1 U
Methyl acetate	--		NA	1000 U	5 U	50 U	5 U	5 U	5 U	5 U
Methylcyclohexane	--		NA	1000 U	5 U	50 U	5 U	5 U	5 U	5 U
Methylene chloride	5		1 U	400 U	2 U	20 U	2 U	2 U	2 U	2 U
MTBE	10		0.5 U	200 U	3.3	10 U	4.3	1 U	1 U	7.8
n-Butylbenzene	5		1 U	200 U	0.53 J	10 U	1 U	1 U	1 U	1 U
n-Propylbenzene	5		1 U	NA	NA	NA	NA	NA	NA	NA
o-Xylene	5		1 U	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	5		1 U	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	5		1 U	NA	NA	NA	NA	NA	NA	NA
Styrene	5		1 U	1000 U	5 U	50 U	5 U	5 U	5 U	5 UJV
t-Butyl Alcohol	--		5 UJV	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	5		1 U	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	5		1 U	57000	249	432	478 JV	187	181	36.2 JV
Toluene	5		1 U	200 U	1 U	10 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5		1 U	200 U	0.36 J	54.4	3.1	1.7	1.7	0.21 J
trans-1,3-Dichloropropene	--		1 U	200 U	1 U	10 U	1 U	1 U	1 U	1 U
Trichloroethene	5		1 U	2200	31.3	381	167	45.7	51.3	1.7
Trichlorofluoromethane	5		1 U	1000 U	5 U	50 U	5 U	5 U	5 U	5 U
Vinyl chloride	2		1 U	1530	1.2	2920	19.5	592	487	6.7
Xylenes (total)	5		1 U	200 U	0.53 J	10 U	1 U	1 U	1 U	1 U

NYSDEC - New York State Department of Environmental Conservation

AWQSGVs - Ambient Water-Quality Standards and Guidance Values

µg/L -Micrograms per liter

J - Estimated Value

U - Compound was analyzed for but not detected

ft bls - Feet below land surface

DUP - Duplicate

-- No NYSDEC AWQSGV available

Bold - Concentration exceeds NYSDEC AWQSGVs

NA - Compound was not analyzed by laboratory

V - Value altered or qualifier added during data validation

R - Sample results rejected by validator

UJ - Analyte was not detected. The associated reported quantitation limit is an estimate

NJ - Detection is tentative in identification and estimated in value

Table 10. Summary of Volatile Organic Compounds Detected in Groundwater
Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in µg/L)	NYSDEC	Sample Designation: FB-053012 FB-053112 FB-060112 FB-060412 FB-060512 FB-060612 FB-062712 FB 062812								
	AWQSGVs	Sample Date: 5/30/2012 5/31/2012 6/1/2012 6/4/2012 6/5/2012 6/6/2012 6/27/2012 6/28/2012								
	(µg/L)	Sample Depth (ft bls):								
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
1,1,2,2-Tetrachloroethane	5	1 U	1 U	0.75 U	1 U	1 U	0.75 U	0.75 U	1 U	
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
1,1-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
1,2,3-Trichlorobenzene	5	NA	NA	1 U	NA	1 U	NA	NA	NA	
1,2,3-Trichloropropane	0.04	1 U	1 U	NA	1 U	NA	1 U	1 U	1 U	
1,2,4-Trichlorobenzene	5	NA	NA	1 U	NA	1 U	NA	NA	NA	
1,2,4-Trimethylbenzene	5	1 U	1 U	NA	1 U	NA	1 U	1 U	1 U	
1,2-Dibromoethane	--	NA	NA	1 U	NA	1 U	NA	NA	NA	
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 UJV	1 U	
1,2-Dichloroethane	0.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
1,3,5-Trimethylbenzene	5	1 U	1 U	NA	1 U	NA	1 U	1 U	1 U	
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
1,3-Dichloropropane	5	1 U	1 U	NA	1 U	NA	1 U	1 U	1 U	
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
1,4-Dioxane	--	50 URV	50 URV	50 URV	50 URV	50 URV	50 URV	50 URV	50 URV	
2-Butanone (MEK)	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
2-Chloroethyl vinyl ether	--	1.0 URV	1.0 URV	NA	1.0 URV	NA	1 URV	1.0 URV	1.0 URV	
2-Hexanone	50	1 U	1 U	1 U	1 U	1 U	1 U	1 UJV	1 U	
4-Methyl-2-pentanone (MIBK)	--	1 U	1 U	1 U	1 U	1 U	1 U	1 UJV	1 UJV	
Acetone	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Acrolein	5	5 UJV	5 UJV	NA	5 UJV	NA	5 UJV	5 UJV	5 UJV	
Acrylonitrile	5	2 U	2 U	NA	2 U	NA	2 U	2 U	2 U	
Benzene	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Bromochloromethane	5	NA	NA	1 U	NA	1 U	NA	NA	NA	
Bromodichloromethane	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
Bromoform	50	1 U	1 U	1 U	1 U	1 U	1 U	1 UJV	1 U	
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
Carbon disulfide	60	1 U	1 U	1 U	1 U	1 U	1 U	1 UJV	1 U	
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 UJV	1 U	
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
Chloromethane	--	1 UJV	1 UJV	1 UJV	1 U	1 U	1 U	1 U	1 U	
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
cis-1,3-Dichloropropene	5	1 U	1 U	1 U	1 U	1 UJV	1 U	1 UJV	1 UJV	
Cyclohexane	--	NA	NA	1 U	NA	1 U	NA	NA	NA	
Dibromochloromethane	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
Dibromochloropropane	--	NA	NA	1 UJV	NA	1 UJV	NA	NA	NA	
Dichlorodifluoromethane	5	1 UJV	1 UJV	1 UJV	1 U	1 U	1 U	1 U	1 UJV	

Table 10. Summary of Volatile Organic Compounds Detected in Groundwater
Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation: FB-053012 FB-053112 FB-060112 FB-060412 FB-060512 FB-060612 FB-062712 FB 062812 Sample Date: 5/30/2012 5/31/2012 6/1/2012 6/4/2012 6/5/2012 6/6/2012 6/27/2012 6/28/2012 Sample Depth (ft bls):							
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Freon 113	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m+p-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methyl acetate	--	NA	NA	1 U	NA	1 U	NA	NA	NA
Methylcyclohexane	--	NA	NA	1 U	NA	1 U	NA	NA	NA
Methylene chloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
MTBE	10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
n-Butylbenzene	5	1 U	1 U	NA	1 U	NA	1 U	1 U	1 U
n-Propylbenzene	5	1 U	1 U	NA	1 U	NA	1 U	1 U	1 U
o-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
p-Isopropyltoluene	5	1 U	1 U	NA	1 U	NA	1 U	1 U	1 U
sec-Butylbenzene	5	1 U	1 U	NA	1 U	NA	1 U	1 U	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJV
t-Butyl Alcohol	--	5 UJV	5 U	NA	5 UJV	NA	5 UJV	5 UJV	5 UJV
tert-Butylbenzene	5	1 U	1 U	NA	1 U	NA	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 UJV	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJV
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 UJV	1 UJV	1 UJV	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes (total)	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

NYSDEC - New York State Department of Environmental Conservation

AWQSGVs - Ambient Water-Quality Standards and Guidance Values

µg/L -Micrograms per liter

J - Estimated Value

U - Compound was analyzed for but not detected

ft bls - Feet below land surface

DUP - Duplicate

-- No NYSDEC AWQSGV available

Bold - Concentration exceeds NYSDEC AWQSGVs

NA - Compound was not analyzed by laboratory

V - Value altered or qualifier added during data validation

R - Sample results rejected by validator

UJ - Analyte was not detected. The associated reported quantitation limit is an estimate

NJ - Detection is tentative in identification and estimated in value

Table 10. Summary of Volatile Organic Compounds Detected in Groundwater
Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in µg/L)	NYSDEC	Sample Designation: FB-062912 FB-070212 FB-070312 FB-070512 FB-072012 FB-072612 FB-072712 FB-031413								
	AWQSGVs	Sample Date: 6/29/2012	7/2/2012	7/3/2012	7/5/2012	7/20/2012	7/26/2012	7/27/2012	3/14/2013	
	(µg/L)	Sample Depth (ft bls):								
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
1,1,2,2-Tetrachloroethane	5	0.75 U	0.75 U	0.75 U	0.75 U	1 U	1 UJV	1 UJV	1 U	
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
1,1-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
1,2,3-Trichlorobenzene	5	NA	NA	NA	NA	NA	NA	NA	5 U	
1,2,3-Trichloropropane	0.04	1 UJV	1 U	1 U	1 U	1 U	1 U	1 U	NA	
1,2,4-Trichlorobenzene	5	NA	NA	NA	NA	NA	NA	NA	5 U	
1,2,4-Trimethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	
1,2-Dibromoethane	--	NA	NA	NA	NA	NA	NA	NA	2 U	
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
1,2-Dichloroethane	0.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
1,3,5-Trimethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
1,3-Dichloropropane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
1,4-Dioxane	--	50 URV	50 URV	50 URV	50 URV	50 URV	50 URV	50 URV	130 U	
2-Butanone (MEK)	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	
2-Chloroethyl vinyl ether	--	1.0 URV	1.0 URV	1.0 URV	1.0 URV	1.0 URV	1.0 URV	1.0 URV	NA	
2-Hexanone	50	1 U	1 U	1 U	1 U	1 U	1 U	1 UJV	5 U	
4-Methyl-2-pentanone (MIBK)	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	
Acetone	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Acrolein	5	5 UJV	5 UJV	5 UJV	5 UJV	5 UJV	5 U	5 U	NA	
Acrylonitrile	5	2 U	2 U	2 U	2 UJV	2 U	2 U	2 U	NA	
Benzene	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	
Bromochloromethane	5	NA	NA	NA	NA	NA	NA	NA	5 U	
Bromodichloromethane	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
Bromoform	50	1 UJV	1 U	1 U	1 U	1 U	1 U	1 U	4 U	
Bromomethane	5	1 UJV	1 U	1 U	1 U	1 UJV	1 U	1 U	2 U	
Carbon disulfide	60	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
Chloromethane	--	1 U	1 U	1 U	1 UJV	1 U	1 U	1 U	1 U	
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
cis-1,3-Dichloropropene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
Cyclohexane	--	NA	NA	NA	NA	NA	NA	NA	5 U	
Dibromochloromethane	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
Dibromochloropropane	--	NA	NA	NA	NA	NA	NA	NA	10 U	
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 UJV	1 U	1 U	1 U	5 U	

Table 10. Summary of Volatile Organic Compounds Detected in Groundwater
Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation: FB-062912 FB-070212 FB-070312 FB-070512 FB-072012 FB-072612 FB-072712 FB-031413 Sample Date: 6/29/2012 7/2/2012 7/3/2012 7/5/2012 7/20/2012 7/26/2012 7/27/2012 3/14/2013 Sample Depth (ft bls):							
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Freon 113	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U
Isopropylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U
m+p-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methyl acetate	--	NA	NA	NA	NA	NA	NA	NA	5 U
Methylcyclohexane	--	NA	NA	NA	NA	NA	NA	NA	5 U
Methylene chloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U
MTBE	10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
n-Butylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Propylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
o-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
p-Isopropyltoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
sec-Butylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U
t-Butyl Alcohol	--	5 UJV	5 UJV	5 UJV	5 UJV	5 UJV	5 UJV	5 UJV	NA
tert-Butylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	0.73 U	0.73 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes (total)	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

NYSDEC - New York State Department of Environmental Conservation

AWQSGVs - Ambient Water-Quality Standards and Guidance Values

µg/L -Micrograms per liter

J - Estimated Value

U - Compound was analyzed for but not detected

ft bls - Feet below land surface

DUP - Duplicate

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NA - Compound was not analyzed by laboratory

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Table 10. Summary of Volatile Organic Compounds Detected in Groundwater
Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation: Sample Date: Sample Depth (ft bls):	TRIP BLANK-1 5/30/2012	TRIP BLANK2 5/31/2012	TRIP BLANK-3 6/4/2012	TRIP BLANK-4 6/6/2012	TRIP BLANK-5 6/6/2012
1,1,1-Trichloroethane	5		1 UJV	1 U	1 U	1 UJV	1 UJV
1,1,2,2-Tetrachloroethane	5		1 UJV	1 U	1 U	0.75 UJV	0.75 UJV
1,1,2-Trichloroethane	1		1 UJV	1 U	1 U	1 UJV	1 UJV
1,1-Dichloroethane	5		1 UJV	1 U	1 U	1 UJV	1 UJV
1,1-Dichloroethene	5		1 UJV	1 U	1 U	1 UJV	1 UJV
1,2,3-Trichlorobenzene	5		NA	NA	NA	NA	NA
1,2,3-Trichloropropane	0.04		1 UJV	1 U	1 U	1 UJV	1 UJV
1,2,4-Trichlorobenzene	5		NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	5		1 UJV	1 U	1 U	1 UJV	1 UJV
1,2-Dibromoethane	--		NA	NA	NA	NA	NA
1,2-Dichlorobenzene	3		1 UJV	1 U	1 U	1 UJV	1 UJV
1,2-Dichloroethane	0.6		0.5 UJV	0.5 U	0.5 U	0.5 UJV	0.5 UJV
1,2-Dichloropropane	1		1 UJV	1 U	1 U	1 UJV	1 UJV
1,3,5-Trimethylbenzene	5		1 UJV	1 U	1 U	1 UJV	1 UJV
1,3-Dichlorobenzene	3		1 UJV	1 U	1 U	1 UJV	1 UJV
1,3-Dichloropropane	5		1 UJV	1 U	1 U	1 UJV	1 UJV
1,4-Dichlorobenzene	3		1 UJV	1 U	1 U	1 UJV	1 UJV
1,4-Dioxane	--		50 URV	50 URV	50 URV	50 URV	50 URV
2-Butanone (MEK)	50		1 UJV	1 U	1 U	1 UJV	1 UJV
2-Chloroethyl vinyl ether	--		1.0 URV	1.0 URV	1.0 URV	1 URV	1 URV
2-Hexanone	50		1 UJV	1 U	1 U	1 UJV	1 UJV
4-Methyl-2-pentanone (MIBK)	--		1 UJV	1 U	1 U	1 UJV	1 UJV
Acetone	50		10 UJV	10 U	10 U	10 UJV	10 UJV
Acrolein	5		5 UJV	5 UJV	5 UJV	5 UJV	5 UJV
Acrylonitrile	5		2 UJV	2 U	2 U	2 UJV	2 UJV
Benzene	1		0.5 UJV	0.5 U	0.5 U	0.5 UJV	0.5 UJV
Bromochloromethane	5		NA	NA	NA	NA	NA
Bromodichloromethane	50		1 UJV	1 U	1 U	1 UJV	1 UJV
Bromoform	50		1 UJV	1 U	1 U	1 UJV	1 UJV
Bromomethane	5		1 UJV	1 U	1 U	1 UJV	1 UJV
Carbon disulfide	60		1 UJV	1 U	1 U	1 UJV	1 UJV
Carbon tetrachloride	5		1 UJV	1 U	1 U	1 UJV	1 UJV
Chlorobenzene	5		1 UJV	1 U	1 U	1 UJV	1 UJV
Chloroethane	5		1 UJV	1 U	1 U	1 UJV	1 UJV
Chloroform	7		1 UJV	1 U	1 U	1 UJV	1 UJV
Chloromethane	--		1 UJV	1 UJV	1 U	1 UJV	1 UJV
cis-1,2-Dichloroethene	5		1 UJV	1 U	1 U	1 UJV	1 UJV
cis-1,3-Dichloropropene	5		1 UJV	1 U	1 U	1 UJV	1 UJV
Cyclohexane	--		NA	NA	NA	NA	NA
Dibromochloromethane	50		1 UJV	1 U	1 U	1 UJV	1 UJV
Dibromochloropropane	--		NA	NA	NA	NA	NA
Dichlorodifluoromethane	5		1 UJV	1 UJV	1 U	1 UJV	1 UJV

Table 10. Summary of Volatile Organic Compounds Detected in Groundwater
Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation: Sample Date: Sample Depth (ft bls):	TRIP BLANK-1 5/30/2012	TRIP BLANK2 5/31/2012	TRIP BLANK-3 6/4/2012	TRIP BLANK-4 6/6/2012	TRIP BLANK-5 6/6/2012
Ethylbenzene	5		1 UJV	1 U	1 U	1 UJV	1 UJV
Freon 113	--		1 UJV	1 U	1 U	1 UJV	1 UJV
Isopropylbenzene	5		1 UJV	1 U	1 U	1 UJV	1 UJV
m+p-Xylene	5		1 UJV	1 U	1 U	1 UJV	1 UJV
Methyl acetate	--		NA	NA	NA	NA	NA
Methylcyclohexane	--		NA	NA	NA	NA	NA
Methylene chloride	5		1 UJV	1 U	1 U	1 UJV	1 UJV
MTBE	10		0.5 UJV	0.5 U	0.5 U	0.5 UJV	0.5 UJV
n-Butylbenzene	5		1 UJV	1 U	1 U	1 UJV	1 UJV
n-Propylbenzene	5		1 UJV	1 U	1 U	1 UJV	1 UJV
o-Xylene	5		1 UJV	1 U	1 U	1 UJV	1 UJV
p-Isopropyltoluene	5		1 UJV	1 U	1 U	1 UJV	1 UJV
sec-Butylbenzene	5		1 UJV	1 U	1 U	1 UJV	1 UJV
Styrene	5		1 UJV	1 U	1 U	1 UJV	1 UJV
t-Butyl Alcohol	--		5 UJV	5 U	5 UJV	5 UJV	5 UJV
tert-Butylbenzene	5		1 UJV	1 U	1 U	1 UJV	1 UJV
Tetrachloroethene	5		1 UJV	1 U	1 U	1 UJV	1 UJV
Toluene	5		1 UJV	1 U	1 U	1 UJV	1 UJV
trans-1,2-Dichloroethene	5		1 UJV	1 U	1 U	1 UJV	1 UJV
trans-1,3-Dichloropropene	--		1 UJV	1 U	1 U	1 UJV	1 UJV
Trichloroethene	5		1 UJV	1 U	1 U	1 UJV	1 UJV
Trichlorofluoromethane	5		1 UJV	1 U	1 U	1 UJV	1 UJV
Vinyl chloride	2		1 UJV	1 U	1 U	1 UJV	1 UJV
Xylenes (total)	5		1 UJV	1 U	1 U	1 UJV	1 UJV

NYSDEC - New York State Department of Environmental Conservation

AWQSGVs - Ambient Water-Quality Standards and Guidance Values

µg/L -Micrograms per liter

J - Estimated Value

U - Compound was analyzed for but not detected

ft bls - Feet below land surface

DUP - Duplicate

-- No NYSDEC AWQSGV available

Bold - Concentration exceeds NYSDEC AWQSGVs

NA - Compound was not analyzed by laboratory

V - Value altered or qualifier added during data validation

R - Sample results rejected by validator

UJ - Analyte was not detected. The associated reported quantitation limit is an estimate

NJ - Detection is tentative in identification and estimated in value

Table 10. Summary of Volatile Organic Compounds Detected in Groundwater
Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation: Sample Date: Sample Depth (ft bls):	TRIP BLANK-6 6/27/2012	TRIP BLANK-7 6/25/2012	TRIP BLANK-8 6/29/2012	TRIP BLANK-9 7/3/2012	TRIP BLANK 7/5/2012
1,1,1-Trichloroethane	5		1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5		0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,1,2-Trichloroethane	1		1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5		1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	5		1 U	1 U	1 U	1 U	1 U
1,2,3-Trichlorobenzene	5		NA	NA	NA	NA	NA
1,2,3-Trichloropropane	0.04		1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	5		NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	5		1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	--		NA	NA	NA	NA	NA
1,2-Dichlorobenzene	3		1 UJV	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1		1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	5		1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3		1 U	1 U	1 U	1 U	1 U
1,3-Dichloropropane	5		1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3		1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	--		50 URV	50 URV	50 URV	50 URV	50 URV
2-Butanone (MEK)	50		1 U	1 U	1 U	1 U	1 U
2-Chloroethyl vinyl ether	--		1.0 URV	1.0 URV	1.0 URV	1.0 URV	1.0 URV
2-Hexanone	50		1 UJV	1 U	1 U	1 U	1 U
4-Methyl-2-pentanone (MIBK)	--		1 UJV	1 U	1 U	1 U	1 U
Acetone	50		10 U	10 U	10 U	10 U	10 U
Acrolein	5		5 UJV	5 UJV	5 UJV	5 UJV	5 UJV
Acrylonitrile	5		2 U	2 U	2 U	2 U	2 UJV
Benzene	1		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromochloromethane	5		NA	NA	NA	NA	NA
Bromodichloromethane	50		1 U	1 U	1 U	1 U	1 U
Bromoform	50		1 UJV	1 U	1 U	1 U	1 U
Bromomethane	5		1 U	1 U	1 U	1 U	1 U
Carbon disulfide	60		1 UJV	1 U	1 U	1 U	1 U
Carbon tetrachloride	5		1 UJV	1 U	1 U	1 U	1 U
Chlorobenzene	5		1 U	1 U	1 U	1 U	1 U
Chloroethane	5		1 U	1 U	1 U	1 U	1 U
Chloroform	7		1 U	1 U	1 U	1 U	1 U
Chloromethane	--		1 U	1 U	1 U	1 U	1 UJV
cis-1,2-Dichloroethene	5		1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	5		1 UJV	1 U	1 U	1 U	1 U
Cyclohexane	--		NA	NA	NA	NA	NA
Dibromochloromethane	50		1 U	1 U	1 U	1 U	1 U
Dibromochloropropane	--		NA	NA	NA	NA	NA
Dichlorodifluoromethane	5		1 U	1 U	1 U	1 U	1 UJV

Table 10. Summary of Volatile Organic Compounds Detected in Groundwater
Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation: Sample Date: Sample Depth (ft bls):	TRIP BLANK-6 6/27/2012	TRIP BLANK-7 6/25/2012	TRIP BLANK-8 6/29/2012	TRIP BLANK-9 7/3/2012	TRIP BLANK 7/5/2012
Ethylbenzene	5		1 U	1 U	1 U	1 U	1 U
Freon 113	--		1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	5		1 U	1 U	1 U	1 U	1 U
m+p-Xylene	5		1 U	1 U	1 U	1 U	1 U
Methyl acetate	--		NA	NA	NA	NA	NA
Methylcyclohexane	--		NA	NA	NA	NA	NA
Methylene chloride	5		1 U	1 U	1 U	1 U	1 U
MTBE	10		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
n-Butylbenzene	5		1 U	1 U	1 U	1 U	1 U
n-Propylbenzene	5		1 U	1 U	1 U	1 U	1 U
o-Xylene	5		1 U	1 U	1 U	1 U	1 U
p-Isopropyltoluene	5		1 U	1 U	1 U	1 U	1 U
sec-Butylbenzene	5		1 U	1 U	1 U	1 U	1 U
Styrene	5		1 U	1 U	1 U	1 U	1 U
t-Butyl Alcohol	--		5 UJV	5 UJV	5 UJV	5 UJV	5 UJV
tert-Butylbenzene	5		1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5		1 UJV	1 U	1 U	1 U	1 U
Toluene	5		1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5		1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	--		1 U	1 U	1 U	1 U	1 U
Trichloroethene	5		1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5		1 UJV	1 U	1 U	1 U	1 U
Vinyl chloride	2		1 U	1 U	1 U	1 U	1 U
Xylenes (total)	5		1 U	1 U	1 U	1 U	1 U

NYSDEC - New York State Department of Environmental Conservation

AWQSGVs - Ambient Water-Quality Standards and Guidance Values

µg/L -Micrograms per liter

J - Estimated Value

U - Compound was analyzed for but not detected

ft bls - Feet below land surface

DUP - Duplicate

-- No NYSDEC AWQSGV available

Bold - Concentration exceeds NYSDEC AWQSGVs

NA - Compound was not analyzed by laboratory

V - Value altered or qualifier added during data validation

R - Sample results rejected by validator

UJ - Analyte was not detected. The associated reported quantitation limit is an estimate

NJ - Detection is tentative in identification and estimated in value

Table 10. Summary of Volatile Organic Compounds Detected in Groundwater
Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation: Sample Date: Sample Depth (ft bls):	TRIP BLANK-11 7/20/2012	TRIPBLANKX 7/26/2012	TRIP BLANK 3/14/2013
1,1,1-Trichloroethane	5		1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5		1 U	1 UJV	1 U
1,1,2-Trichloroethane	1		1 U	1 U	1 U
1,1-Dichloroethane	5		1 U	1 U	1 U
1,1-Dichloroethene	5		1 U	1 U	1 U
1,2,3-Trichlorobenzene	5		NA	NA	5 U
1,2,3-Trichloropropane	0.04		1 U	1 U	NA
1,2,4-Trichlorobenzene	5		NA	NA	5 U
1,2,4-Trimethylbenzene	5		1 U	1 U	NA
1,2-Dibromoethane	--		NA	NA	2 U
1,2-Dichlorobenzene	3		1 U	1 U	1 U
1,2-Dichloroethane	0.6		0.5 U	0.5 U	1 U
1,2-Dichloropropane	1		1 U	1 U	1 U
1,3,5-Trimethylbenzene	5		1 U	1 U	NA
1,3-Dichlorobenzene	3		1 U	1 U	1 U
1,3-Dichloropropane	5		1 U	1 U	NA
1,4-Dichlorobenzene	3		1 U	1 U	1 U
1,4-Dioxane	--		50 URV	50 URV	130 U
2-Butanone (MEK)	50		1 U	1 U	10 U
2-Chloroethyl vinyl ether	--		1.0 URV	1.0 URV	NA
2-Hexanone	50		1 U	1 U	5 U
4-Methyl-2-pentanone (MIBK)	--		1 U	1 U	5 U
Acetone	50		10 U	10 U	10 U
Acrolein	5		5 UJV	5 U	NA
Acrylonitrile	5		2 U	2 U	NA
Benzene	1		0.5 U	0.5 U	1 U
Bromochloromethane	5		NA	NA	5 U
Bromodichloromethane	50		1 U	1 U	1 U
Bromoform	50		1 U	1 U	4 U
Bromomethane	5		1 UJV	1 U	2 U
Carbon disulfide	60		1 U	1 U	2 U
Carbon tetrachloride	5		1 U	1 U	1 U
Chlorobenzene	5		1 U	1 U	1 U
Chloroethane	5		1 U	1 U	1 U
Chloroform	7		1 U	1 U	1 U
Chloromethane	--		1 U	1 U	1 U
cis-1,2-Dichloroethene	5		1 U	1 U	1 U
cis-1,3-Dichloropropene	5		1 U	1 U	1 U
Cyclohexane	--		NA	NA	5 U
Dibromochloromethane	50		1 U	1 U	1 U
Dibromochloropropane	--		NA	NA	10 U
Dichlorodifluoromethane	5		1 U	1 U	5 U

**Table 10. Summary of Volatile Organic Compounds Detected in Groundwater
Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York**

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation: Sample Date: Sample Depth (ft bls):	TRIP BLANK-11 7/20/2012	TRIPBLANKX 7/26/2012	TRIP BLANK 3/14/2013
Ethylbenzene	5		1 U	1 U	1 U
Freon 113	--		1 U	1 U	5 U
Isopropylbenzene	5		1 U	1 U	2 U
m+p-Xylene	5		1 U	1 U	1 U
Methyl acetate	--		NA	NA	5 U
Methylcyclohexane	--		NA	NA	5 U
Methylene chloride	5		1 U	1 U	2 U
MTBE	10		0.5 U	0.5 U	1 U
n-Butylbenzene	5		1 U	1 U	1 U
n-Propylbenzene	5		1 U	1 U	NA
o-Xylene	5		1 U	1 U	NA
p-Isopropyltoluene	5		1 U	1 U	NA
sec-Butylbenzene	5		1 U	1 U	NA
Styrene	5		1 U	1 U	5 U
t-Butyl Alcohol	--		5 UJV	5 UJV	NA
tert-Butylbenzene	5		1 U	1 U	NA
Tetrachloroethene	5		1 U	0.73 U	1 U
Toluene	5		1 U	1 U	1 U
trans-1,2-Dichloroethene	5		1 U	1 U	1 U
trans-1,3-Dichloropropene	--		1 U	1 U	1 U
Trichloroethene	5		1 U	1 U	1 U
Trichlorofluoromethane	5		1 U	1 U	5 U
Vinyl chloride	2		1 U	1 U	1 U
Xylenes (total)	5		1 U	1 U	1 U

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AWQSGVs - Ambient Water-Quality Standards and Guidance Values

µg/L -Micrograms per liter

J - Estimated Value

U - Compound was analyzed for but not detected

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NA - Compound was not analyzed by laboratory

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UJ - Analyte was not detected. The associated reported quantitation limit is an estimate

NJ - Detection is tentative in identification and estimated in value

Table 10a. Summary of Volatile Organic Compounds Detected in Groundwater From 2013 Semi-Annual Sampling Events*
Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation:		MW-3	MW-3	MW-6R	MW-6R	MW-8	MW-8	MW-10	MW-10
		Sample Date:		3/14/2013	9/13/2013	3/14/2013	9/13/2013	3/14/2013	9/13/2013	3/13/2013	9/13/2013
1,1,1-Trichloroethane	5			10 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5			10 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1			10 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U
1,1-Dichloroethane	5			10 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U
1,1-Dichloroethene	5			2.1 J	1.8	1 U	1 U	0.54 J	0.61 J	1 U	1 U
1,2,3-Trichlorobenzene	5			50 U	5 U	5 U	5 U	10 U	5 U	5 U	5 U
1,2,4-Trichlorobenzene	5			50 U	5 U	5 U	5 U	10 U	5 U	5 U	5 U
1,2-Dibromoethane	--			20 U	2 U	2 U	2 U	4 U	2 U	2 U	2 U
1,2-Dichlorobenzene	3			10 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6			10 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U
1,2-Dichloropropane	1			10 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3			10 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3			10 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U
1,4-Dioxane	--			1300 U	130 U	130 U	130 U	250 U	130 U	130 U	130 U
2-Butanone (MEK)	50			100 U	10 U	10 U	10 U	20 U	10 U	10 U	10 U
2-Hexanone	50			50 U	5 U	5 U	5 U	10 U	5 U	5 U	5 U
4-Methyl-2-pentanone (MIBK)	--			50 U	5 U	5 U	5 U	10 U	5 U	5 U	5 U
Acetone	50			100 U	10 U	10 U	10 U	20 U	10 U	10 U	10 U
Benzene	1			10 U	1 UV	1 U	1 UV	2 U	1 UV	1 U	1 U
Bromochloromethane	5			50 U	5 U	5 U	5 U	10 U	5 U	5 U	5 U
Bromodichloromethane	50			10 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U
Bromoform	50			40 U	4 U	4 U	4 U	8 U	4 U	4 U	4 U
Bromomethane	5			20 U	2 U	2 U	2 U	4 U	2 UJV	2 U	2 UJV
Carbon disulfide	60			20 U	2 U	2 U	2 U	4 U	2 U	2 U	2 U
Carbon tetrachloride	5			10 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U
Chlorobenzene	5			10 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U
Chloroethane	5			10 U	1 U	1 U	1 U	2 U	1 UJV	1 U	1 UJV
Chloroform	7			10 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U
Chloromethane	--			10 U	1 U	1 U	1 U	2 U	1 UJV	1 U	1 UJV
cis-1,2-Dichloroethene	5			1150	896	1 U	125	344	352	0.25 J	10.7
cis-1,3-Dichloropropene	5			10 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U
Cyclohexane	--			50 U	1.2 J	5 U	5 U	10 U	0.82 J	5 U	5 U
Dibromochloromethane	50			10 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U
Dibromochloropropane	--			100 U	10 U	10 U	10 U	20 U	10 U	10 U	10 U
Dichlorodifluoromethane	5			50 U	5 U	5 U	5 U	10 U	5 UJV	5 U	5 UJV

Table 10a. Summary of Volatile Organic Compounds Detected in Groundwater From 2013 Semi-Annual Sampling Events*
Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation:		MW-3	MW-3	MW-6R	MW-6R	MW-8	MW-8	MW-10	MW-10
		Sample Date:		3/14/2013	9/13/2013	3/14/2013	9/13/2013	3/14/2013	9/13/2013	3/13/2013	9/13/2013
Ethylbenzene	5			10 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U
Freon 113	--			50 U	5 U	5 U	5 U	10 U	5 UJV	5 U	5 UJV
Isopropylbenzene	5			20 U	2 U	2 U	2 U	4 U	2 U	2 U	2 U
m+p-Xylene	5			10 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U
Methyl acetate	--			50 U	5 U	5 U	5 U	10 U	5 U	5 U	5 U
Methylcyclohexane	--			50 U	5 U	5 U	5 U	10 U	5 UJV	5 U	5 UJV
Methylene chloride	5			20 U	2 U	2 U	2 U	4 U	2 U	2 U	2 U
MTBE	10			2.3 J	1.5	1 U	1 U	0.7 J	0.6 J	1 U	1 U
o-Xylene	5			10 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U
Styrene	5			50 U	5 U	5 U	5 U	10 U	5 U	5 U	5 U
Tetrachloroethene	5			53.7	41	0.66 J	3.1	4.3	6.6	1 U	0.43 J
Toluene	5			10 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5			5.6 J	4.4	1 U	1.2	1.9 J	1.8	1 U	1 U
trans-1,3-Dichloropropene	--			10 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U
Trichloroethene	5			79.5	56.2	0.42 J	8.1	11.3	18.7	1 U	1 U
Trichlorofluoromethane	5			50 U	5 U	5 U	5 U	10 U	5 U	5 U	5 U
Vinyl chloride	2			6.4 J	9	1 U	2.8	8.3	12.2	0.8 J	2.6
Xylenes (total)	5			10 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U

Notes:

*These data were not collected as part of the Remedial Investigation and are provided for informational purposes

NYSDEC - New York State Department of Environmental Conservation

AWQSGVs - Ambient Water-Quality Standards and Guidance Values

µg/L -Micrograms per liter

J - Estimated Value

U - Compound was analyzed for but not detected

-- No NYSDEC AWQSGV available

Bold - Concentration exceeds NYSDEC AWQSGVs

V - Value altered or qualifier added during data validation

UJ - Analyte was not detected. The associated reported quantitation limit is an estimate

Table 10a. Summary of Volatile Organic Compounds Detected in Groundwater From 2013 Semi-Annual Sampling Events*
Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation: Sample Date:	MW-12 3/13/2013	MW-12 9/13/2013	MW-14 3/14/2013	MW-14 9/13/2013	MW-16 3/13/2013	MW-16 9/12/2013	MW-18 3/20/2013	MW-18 9/13/2013
1,1,1-Trichloroethane	5		1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U
1,1,2,2-Tetrachloroethane	5		1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U
1,1,2-Trichloroethane	1		1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U
1,1-Dichloroethane	5		1 U	1 U	1 U	1 U	1.5	1 U	10 U	1 U
1,1-Dichloroethene	5		1 U	1 U	0.24 J	0.43 J	0.63 J	1 U	2.4 J	1 U
1,2,3-Trichlorobenzene	5		5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U
1,2,4-Trichlorobenzene	5		5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U
1,2-Dibromoethane	--		2 U	2 U	2 U	2 U	2 U	2 U	20 U	2 U
1,2-Dichlorobenzene	3		1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U
1,2-Dichloroethane	0.6		1 U	1 U	1 U	1 U	0.35 J	1 U	10 U	1 U
1,2-Dichloropropane	1		1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U
1,3-Dichlorobenzene	3		1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U
1,4-Dichlorobenzene	3		1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U
1,4-Dioxane	--		130 U	130 U	130 U	130 U	130 U	130 UJV	1300 U	130 U
2-Butanone (MEK)	50		10 U	10 U	10 U	10 U	10 U	10 U	100 U	10 U
2-Hexanone	50		5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U
4-Methyl-2-pentanone (MIBK)	--		5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U
Acetone	50		10 U	10 U	10 U	4.6 J	10 U	10 U	100 U	10 U
Benzene	1		4.2	1 UV	0.53 J	0.46 J	1 U	1 U	12.7	1 U
Bromochloromethane	5		5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U
Bromodichloromethane	50		1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U
Bromoform	50		4 U	4 U	4 U	4 U	4 U	4 U	40 U	4 U
Bromomethane	5		2 U	2 U	2 U	2 U	2 U	2 UJV	20 U	2 U
Carbon disulfide	60		2 U	2 U	2 U	2 U	2 U	2 U	20 U	2 U
Carbon tetrachloride	5		1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U
Chlorobenzene	5		1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U
Chloroethane	5		1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U
Chloroform	7		1 U	1 U	1 U	1 U	2	1.1	10 U	1 U
Chloromethane	--		1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U
cis-1,2-Dichloroethene	5		132	22.8	165	280	24.2	6.4	1130	4.7
cis-1,3-Dichloropropene	5		1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U
Cyclohexane	--		6.7	0.93 J	0.88 J	5 U	5 U	5 U	11.6 J	5 U
Dibromochloromethane	50		1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U
Dibromochloropropane	--		10 U	10 U	10 U	10 U	10 U	10 U	100 U	10 U
Dichlorodifluoromethane	5		5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U

Table 10a. Summary of Volatile Organic Compounds Detected in Groundwater From 2013 Semi-Annual Sampling Events*
Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation: Sample Date:	MW-12 3/13/2013	MW-12 9/13/2013	MW-14 3/14/2013	MW-14 9/13/2013	MW-16 3/13/2013	MW-16 9/12/2013	MW-18 3/20/2013	MW-18 9/13/2013
Ethylbenzene	5		1 U	1 U	2.3	1 U	1 U	1 U	10 U	1 U
Freon 113	--		5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U
Isopropylbenzene	5		2 U	2 U	2.1	1.4 J	2 U	2 U	20 U	2 U
m+p-Xylene	5		1 U	1 U	0.44 J	1 U	1 U	1 U	10 U	1 U
Methyl acetate	--		5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U
Methylcyclohexane	--		2.6 J	0.45 J	1.2 J	5 U	5 U	5 U	50 U	5 U
Methylene chloride	5		2 U	2 U	2 U	2 U	2 U	2 U	20 U	2 U
MTBE	10		0.32 J	1 U	1 U	1 U	0.34 J	1 U	10 U	1 U
o-Xylene	5		1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U
Styrene	5		5 U	5 U	5 U	5 U	5 U	5 U	50 UJV	5 U
Tetrachloroethene	5		1 U	1 U	1 U	1.1	1 U	1 U	10 U	1 U
Toluene	5		1 U	1 U	0.31 J	1 U	1 U	1 U	10 U	1 U
trans-1,2-Dichloroethene	5		3.4	0.95 J	0.71 J	1.2	1.3	0.43 J	9.2 J	1 U
trans-1,3-Dichloropropene	--		1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U
Trichloroethene	5		2	1 U	1.1	3	1 U	1 U	10 U	1 U
Trichlorofluoromethane	5		5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U
Vinyl chloride	2		8.2	2.5	26.6	17.1	11.7	1.3	176	1 U
Xylenes (total)	5		1 U	1 U	0.44 J	1 U	1 U	1 U	10 U	1 U

Notes:

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AWQSGVs - Ambient Water-Quality Standards and Guidance Values

µg/L -Micrograms per liter

J - Estimated Value

U - Compound was analyzed for but not detected

-- No NYSDEC AWQSGV available

Bold - Concentration exceeds NYSDEC AWQSGVs

V - Value altered or qualifier added during data validation

UJ - Analyte was not detected. The associated reported quantitation limit is an estimate

Table 10a. Summary of Volatile Organic Compounds Detected in Groundwater From 2013 Semi-Annual Sampling Events*
Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation: Sample Date:	MW-19 3/13/2013	MW-19 9/13/2013	MW-20 3/13/2013	MW-20 9/13/2013	MW-D1 9/13/2013	MW-D1I 9/13/2013	MW-D2 9/13/2013
1,1,1-Trichloroethane	5		1 U	1 U	2 U	1 U	100 U	1 U	50 U
1,1,2,2-Tetrachloroethane	5		1 U	1 U	2 U	1 U	100 U	1 U	50 U
1,1,2-Trichloroethane	1		1 U	1 U	2 U	1 U	100 U	1 U	50 U
1,1-Dichloroethane	5		1 U	1 U	2 U	1 U	100 U	1 U	50 U
1,1-Dichloroethene	5		1 U	1 U	2 U	0.94 J	100 U	1 U	49.8 J
1,2,3-Trichlorobenzene	5		5 U	5 U	10 U	5 U	500 U	5 U	250 U
1,2,4-Trichlorobenzene	5		5 U	5 U	10 U	5 U	500 U	5 U	250 U
1,2-Dibromoethane	--		2 U	2 U	4 U	2 U	200 U	2 U	100 U
1,2-Dichlorobenzene	3		1 U	1 U	2 U	1 U	100 U	1 U	50 U
1,2-Dichloroethane	0.6		1 U	1 U	2 U	1 U	100 U	1 U	50 U
1,2-Dichloropropane	1		1 U	1 U	2 U	1 U	100 U	1 U	50 U
1,3-Dichlorobenzene	3		1 U	1 U	2 U	1 U	100 U	1 U	50 U
1,4-Dichlorobenzene	3		1 U	1 U	2 U	1 U	100 U	1 U	50 U
1,4-Dioxane	--		130 U	130 U	250 U	130 U	13000 UJV	130 U	6300 U
2-Butanone (MEK)	50		10 U	10 U	20 U	10 U	1000 U	10 U	500 U
2-Hexanone	50		5 U	5 U	10 U	5 U	500 U	5 U	250 U
4-Methyl-2-pentanone (MIBK)	--		5 U	5 U	10 U	5 U	500 U	5 U	250 U
Acetone	50		10 U	10 U	20 U	10 U	1000 U	10 U	500 U
Benzene	1		1 U	1 UV	2 U	1 U	100 U	1 U	50 U
Bromochloromethane	5		5 U	5 U	10 U	5 U	500 U	5 U	250 U
Bromodichloromethane	50		1 U	1 U	2 U	1 U	100 U	1 U	50 U
Bromoform	50		4 U	4 U	8 U	4 U	400 U	4 U	200 U
Bromomethane	5		2 U	2 UJV	4 U	2 UJV	200 UJV	2 UJV	100 UJV
Carbon disulfide	60		2 U	2 U	4 U	2 U	200 U	2 U	100 U
Carbon tetrachloride	5		1 U	1 U	2 U	1 U	100 U	1 U	50 U
Chlorobenzene	5		1 U	1 U	2 U	1 U	100 U	1 U	50 U
Chloroethane	5		1 U	1 UJV	2 U	1 UJV	100 U	1 UJV	50 UJV
Chloroform	7		1 U	1 U	2 U	1 U	100 U	1 U	50 U
Chloromethane	--		1 U	1 UJV	2 U	1 UJV	100 U	1 UJV	50 UJV
cis-1,2-Dichloroethene	5		9.4	156	251	927	4670	171	24700
cis-1,3-Dichloropropene	5		1 U	1 U	2 U	1 U	100 U	1 U	50 U
Cyclohexane	--		5 U	1.3 J	10 U	5 U	500 U	5 U	250 U
Dibromochloromethane	50		1 U	1 U	2 U	1 U	100 U	1 U	50 U
Dibromochloropropane	--		10 U	10 U	20 U	10 U	1000 U	10 U	500 U
Dichlorodifluoromethane	5		5 U	5 UJV	10 U	5 UJV	500 U	5 UJV	250 UJV

Table 10a. Summary of Volatile Organic Compounds Detected in Groundwater From 2013 Semi-Annual Sampling Events*
Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation: Sample Date:	MW-19 3/13/2013	MW-19 9/13/2013	MW-20 3/13/2013	MW-20 9/13/2013	MW-D1 9/13/2013	MW-D1I 9/13/2013	MW-D2 9/13/2013
Ethylbenzene	5		1 U	1 U	2 U	1 U	100 U	1 U	50 U
Freon 113	--		5 U	5 UJV	10 U	5 UJV	500 U	5 UJV	250 UJV
Isopropylbenzene	5		2 U	2 U	4 U	2 U	200 U	2 U	100 U
m+p-Xylene	5		1 U	1 U	2 U	1 U	100 U	1 U	50 U
Methyl acetate	--		5 U	5 U	10 U	5 U	500 U	5 U	250 U
Methylcyclohexane	--		5 U	5 UJV	10 U	5 UJV	500 U	5 UJV	250 UJV
Methylene chloride	5		2 U	2 U	4 U	2 U	200 U	2 U	100 U
MTBE	10		1 U	1 U	2 U	1 U	100 U	1.8	50 U
o-Xylene	5		1 U	1 U	2 U	1 U	100 U	1 U	50 U
Styrene	5		5 U	5 U	10 U	5 U	500 U	5 U	250 U
Tetrachloroethene	5		0.31 J	1 U	2 U	1 U	16600	34.9	1440
Toluene	5		1 U	1 U	2 U	1 U	100 U	1 U	50 U
trans-1,2-Dichloroethene	5		1 U	0.42 J	1.3 J	2.8	100 U	0.8 J	96.8
trans-1,3-Dichloropropene	--		1 U	1 U	2 U	1 U	100 U	1 U	50 U
Trichloroethene	5		0.55 J	2.6	2 U	1 U	2710	8.3	552
Trichlorofluoromethane	5		5 U	5 U	10 U	5 U	500 U	5 U	250 U
Vinyl chloride	2		1.7	34.7	65.9	165	820	5.5	2370
Xylenes (total)	5		1 U	1 U	2 U	1 U	100 U	1 U	50 U

Notes:

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AWQSGVs - Ambient Water-Quality Standards and Guidance Values

µg/L -Micrograms per liter

J - Estimated Value

U - Compound was analyzed for but not detected

-- No NYSDEC AWQSGV available

Bold - Concentration exceeds NYSDEC AWQSGVs

V - Value altered or qualifier added during data validation

UJ - Analyte was not detected. The associated reported quantitation limit is an estimate

Table 10a. Summary of Volatile Organic Compounds Detected in Groundwater From 2013 Semi-Annual Sampling Events*
Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation: MW-D2I Sample Date: 9/13/2013	MW-D3 9/13/2013	MW-D3I 9/13/2013
1,1,1-Trichloroethane	5	50 U	5 UJV	1 U
1,1,2,2-Tetrachloroethane	5	50 U	5 UJV	1 U
1,1,2-Trichloroethane	1	50 U	5 UJV	1 U
1,1-Dichloroethane	5	50 U	5 UJV	1 U
1,1-Dichloroethene	5	50 U	5 UJV	1 U
1,2,3-Trichlorobenzene	5	250 U	25 UJV	5 U
1,2,4-Trichlorobenzene	5	250 U	25 UJV	5 U
1,2-Dibromoethane	--	100 U	10 UJV	2 U
1,2-Dichlorobenzene	3	50 U	5 UJV	1 U
1,2-Dichloroethane	0.6	50 U	5 UJV	1 U
1,2-Dichloropropane	1	50 U	5 UJV	1 U
1,3-Dichlorobenzene	3	50 U	5 UJV	1 U
1,4-Dichlorobenzene	3	50 U	5 UJV	1 U
1,4-Dioxane	--	6300 U	630 UJV	130 UJV
2-Butanone (MEK)	50	500 U	50 UJV	10 U
2-Hexanone	50	250 U	25 UJV	5 U
4-Methyl-2-pentanone (MIBK)	--	250 U	25 UJV	5 U
Acetone	50	500 U	50 UJV	10 U
Benzene	1	50 U	5 UJV	1 U
Bromochloromethane	5	250 U	25 UJV	5 U
Bromodichloromethane	50	50 U	5 UJV	1 U
Bromoform	50	200 U	20 UJV	4 U
Bromomethane	5	100 UJV	10 UJV	2 UJV
Carbon disulfide	60	100 U	10 UJV	2 U
Carbon tetrachloride	5	50 U	5 UJV	1 U
Chlorobenzene	5	50 U	5 UJV	1 U
Chloroethane	5	50 UJV	5 UJV	1 U
Chloroform	7	50 U	5 UJV	1 U
Chloromethane	--	50 UJV	5 UJV	1 U
cis-1,2-Dichloroethene	5	6400	769 JV	67.8
cis-1,3-Dichloropropene	5	50 U	5 UJV	1 U
Cyclohexane	--	250 U	25 UJV	5 U
Dibromochloromethane	50	50 U	5 UJV	1 U
Dibromochloropropane	--	500 U	50 UJV	10 U
Dichlorodifluoromethane	5	250 UJV	25 UJV	5 U

Table 10a. Summary of Volatile Organic Compounds Detected in Groundwater From 2013 Semi-Annual Sampling Events*
Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation: MW-D2I MW-D3 MW-D3I		
		Sample Date: 9/13/2013 9/13/2013 9/13/2013		
Ethylbenzene	5	50 U	5 UJV	1 U
Freon 113	--	250 UJV	25 UJV	5 U
Isopropylbenzene	5	100 U	10 UJV	2 U
m+p-Xylene	5	50 U	5 UJV	1 U
Methyl acetate	--	250 U	25 UJV	5 U
Methylcyclohexane	--	250 UJV	25 UJV	5 U
Methylene chloride	5	100 U	10 UJV	2 U
MTBE	10	50 U	5 UJV	1.5
o-Xylene	5	50 U	5 UJV	1 U
Styrene	5	250 U	25 UJV	5 U
Tetrachloroethene	5	738	223 JV	18
Toluene	5	50 U	5 UJV	1 U
trans-1,2-Dichloroethene	5	21.8 J	2.4 JV	0.39 J
trans-1,3-Dichloropropene	--	50 U	5 UJV	1 U
Trichloroethene	5	805	46.4 JV	7.1
Trichlorofluoromethane	5	250 U	25 UJV	5 U
Vinyl chloride	2	337	548 JV	10.6
Xylenes (total)	5	50 U	5 UJV	1 U

Notes:

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µg/L -Micrograms per liter

J - Estimated Value

U - Compound was analyzed for but not detected

-- No NYSDEC AWQSGV available

Bold - Concentration exceeds NYSDEC AWQSGVs

V - Value altered or qualifier added during data validation

UJ - Analyte was not detected. The associated reported quantitation limit is an estimate

Table 11. Summary of Semivolatile Organic Compounds Detected in Groundwater, Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation: Sample Date:	AP-4 6/1/2012	AP-5 6/6/2012	AP-6 6/6/2012	BMW-7 6/4/2012	BMW-7 DUP 6/4/2012	BMW-7S 6/4/2012	MW-3 6/5/2012	MW-7 6/5/2012	FB-060112 6/1/2012
1,1'-Biphenyl	--		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
1,2,4,5-Tetrachlorobenzene	--		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
2,2'-oxybis (1-chloropropane)	5		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
2,3,4,6-Tetrachlorophenol	--		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
2,4,5-Trichlorophenol	--		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
2,4,6-Trichlorophenol	--		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
2,4-Dichlorophenol	5		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
2,4-Dimethylphenol	50		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
2,4-Dinitrophenol	10		11 U	10 U	10 U	11 U	11 U	11 U	11 U	11 U	11 U
2,4-Dinitrotoluene	5		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
2,6-Dinitrotoluene	5		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
2-Chloronaphthalene	10		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
2-Chlorophenol	--		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
2-Methylnaphthalene	--		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
2-Methylphenol	--		0.56 U	0.51 U	0.5 U	0.53 U	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U
2-Nitroaniline	5		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
2-Nitrophenol	--		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
3,3'-Dichlorobenzidine	5		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
3-Nitroaniline	5		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
4,6-Dinitro-2-methylphenol	--		2.2 U	10 U	10 U	11 U	2.2 U	2.2 U	11 U	11 U	2.2 U
4-Bromophenyl phenyl ether	--		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
4-Chloro-3-methylphenol	--		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
4-Chloroaniline	5		0.56 U	0.51 U	0.5 U	0.53 U	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U
4-Chlorophenyl phenyl ether	--		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
4-Methylphenol	--		0.56 U	0.51 U	0.5 U	0.53 U	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U
4-Nitroaniline	5		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
4-Nitrophenol	--		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Acenaphthene	20		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Acenaphthylene	20		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Acetophenone	--		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Anthracene	50		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Atrazine	--		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Benzaldehyde	--		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Benzo[a]anthracene	0.002		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Benzo[a]pyrene	0		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Benzo[b]fluoranthene	0.002		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Benzo[g,h,i]perylene	--		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Benzo[k]fluoranthene	0.002		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Bis(2-chloroethoxy)methane	5		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Bis(2-chloroethyl) ether	--		0.56 U	0.51 U	0.5 U	0.53 U	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U
Bis(2-ethylhexyl) phthalate	5		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U

Table 11. Summary of Semivolatile Organic Compounds Detected in Groundwater, Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation: Sample Date:	AP-4 6/1/2012	AP-5 6/6/2012	AP-6 6/6/2012	BMW-7 6/4/2012	BMW-7 DUP 6/4/2012	BMW-7S 6/4/2012	MW-3 6/5/2012	MW-7 6/5/2012	FB-060112 6/1/2012
Butylbenzyl phthalate	50		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Caprolactam	--		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Carbazole	--		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Chrysene	0.002		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Dibenzo[a,h]anthracene	--		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Dibenzofuran	--		0.56 U	0.51 U	0.5 U	0.53 U	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U
Diethyl phthalate	50		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Dimethyl phthalate	50		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Di-n-butyl phthalate	50		0.56 U	0.51 U	0.5 U	0.53 U	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U
Di-n-octyl phthalate	--		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Fluoranthene	50		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Fluorene	50		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Hexachlorobenzene	0.04		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Hexachlorobutadiene	0.5		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Hexachlorocyclopentadiene	5		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Hexachloroethane	5		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Indeno[1,2,3-cd]pyrene	0.002		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Isophorone	50		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Naphthalene	10		0.56 U	0.51 U	0.5 U	0.53 U	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U
Nitrobenzene	0.4		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
n-Nitrosodi-n-propylamine	--		0.56 U	0.51 U	0.5 U	0.53 U	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U
n-Nitrosodiphenylamine	50		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Pentachlorophenol	1		11 U	10 U	10 U	11 U	11 U	11 U	11 U	11 U	11 U
Phenanthrene	50		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Phenol	1		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Pyrene	50		2.2 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U

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µg/L -Micrograms per liter

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-- No NYSDEC AWQSGV available

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Table 11. Summary of Semivolatile Organic Compounds Detected in Groundwater, Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation: FB-060412 FB-060512 FB-060612 FB-062912 FB-070212 FB-070312					
		Sample Date: 6/4/2012 6/5/2012 6/6/2012 6/29/2012 7/2/2012 7/3/2012					
1,1'-Biphenyl	--	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
1,2,4,5-Tetrachlorobenzene	--	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
2,2'-oxybis (1-chloropropane)	5	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
2,3,4,6-Tetrachlorophenol	--	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
2,4,5-Trichlorophenol	--	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
2,4,6-Trichlorophenol	--	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
2,4-Dichlorophenol	5	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
2,4-Dimethylphenol	50	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
2,4-Dinitrophenol	10	11 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene	5	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
2,6-Dinitrotoluene	5	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
2-Chloronaphthalene	10	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
2-Chlorophenol	--	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
2-Methylnaphthalene	--	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
2-Methylphenol	--	0.53 U	0.5 U	0.52 U	0.52 U	0.51 U	0.52 U
2-Nitroaniline	5	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
2-Nitrophenol	--	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
3,3'-Dichlorobenzidine	5	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
3-Nitroaniline	5	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
4,6-Dinitro-2-methylphenol	--	11 U	10 U	10 U	2.1 U	2 U	2.1 U
4-Bromophenyl phenyl ether	--	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
4-Chloro-3-methylphenol	--	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
4-Chloroaniline	5	0.53 U	0.5 U	0.52 U	0.52 U	0.51 U	0.52 U
4-Chlorophenyl phenyl ether	--	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
4-Methylphenol	--	0.53 U	0.5 U	0.52 U	0.52 U	0.51 U	0.52 U
4-Nitroaniline	5	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
4-Nitrophenol	--	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
Acenaphthene	20	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
Acenaphthylene	20	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
Acetophenone	--	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
Anthracene	50	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
Atrazine	--	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
Benzaldehyde	--	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
Benzo[a]anthracene	0.002	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
Benzo[a]pyrene	0	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
Benzo[b]fluoranthene	0.002	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
Benzo[g,h,i]perylene	--	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
Benzo[k]fluoranthene	0.002	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
Bis(2-chloroethoxy)methane	5	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
Bis(2-chloroethyl) ether	--	0.53 U	0.5 U	0.52 U	0.52 U	0.51 U	0.52 U
Bis(2-ethylhexyl) phthalate	5	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U

Table 11. Summary of Semivolatile Organic Compounds Detected in Groundwater, Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation: FB-060412 FB-060512 FB-060612 FB-062912 FB-070212 FB-070312					
		Sample Date: 6/4/2012 6/5/2012 6/6/2012 6/29/2012 7/2/2012 7/3/2012					
Butylbenzyl phthalate	50	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
Caprolactam	--	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
Carbazole	--	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
Chrysene	0.002	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
Dibenzo[a,h]anthracene	--	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
Dibenzofuran	--	0.53 U	0.5 U	0.52 U	0.52 U	0.51 U	0.52 U
Diethyl phthalate	50	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
Dimethyl phthalate	50	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
Di-n-butyl phthalate	50	0.53 U	0.5 U	0.52 U	0.52 U	0.51 U	0.52 U
Di-n-octyl phthalate	--	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
Fluoranthene	50	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
Fluorene	50	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
Hexachlorobenzene	0.04	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
Hexachlorobutadiene	0.5	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
Hexachlorocyclopentadiene	5	2.1 U	2 U	2.1 U	2.1 U	2 UJV	2.1 UJV
Hexachloroethane	5	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
Indeno[1,2,3-cd]pyrene	0.002	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
Isophorone	50	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
Naphthalene	10	0.53 U	0.5 U	0.52 U	0.52 U	0.51 U	0.52 U
Nitrobenzene	0.4	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
n-Nitrosodi-n-propylamine	--	0.53 U	0.5 U	0.52 U	0.52 U	0.51 U	0.52 U
n-Nitrosodiphenylamine	50	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
Pentachlorophenol	1	11 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	50	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
Phenol	1	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U
Pyrene	50	2.1 U	2 U	2.1 U	2.1 U	2 U	2.1 U

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µg/L -Micrograms per liter

J - Estimated Value

U - Compound was analyzed for but not detected

DUP - Duplicate

-- No NYSDEC AWQSGV available

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Table 12. Summary of Metals Detected in Groundwater, Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation: Sample Date:	AP-4 6/1/2012 Filtered	AP-4 6/1/2012	AP-5 6/6/2012 Filtered	AP-5 6/6/2012	AP-6 6/6/2012 Filtered	AP-6 6/6/2012	BMW-7 6/4/2012 Filtered	BMW-7 6/4/2012
Aluminum	--		180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U
Antimony	3		12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U
Arsenic	25		7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	9.7
Barium	1000		50 U	50 U	170	160	150	160	200	190
Beryllium	3		4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U
Cadmium	5		3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
Calcium	--		78000	80000	92000	89000	140000	140000	190000	190000
Chromium	50		50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Cobalt	--		20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Copper	200		50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Cyanide, Free	200		NA	0.02 U	NA	0.02 U	NA	0.02 U	NA	0.02 U
Iron	--		280 U	280 U	280 U	280 U	280 U	280 U	12000	11000
Lead	25		4 U	4 U	4 U	4 U	4 U	17	4 U	4 U
Magnesium	--		8600	9200	26000 JV	22000 JV	9400	9100	34000	34000
Manganese	300		260	450	220 JV	170 JV	40 U	140	700	620
Mercury	0.7		0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
Nickel	100		50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Potassium	--		12000	12000	11000	11000	9600	9700	16000	16000
Selenium	10		40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U
Silver	50		20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Sodium	20000		63000	63000	51000	51000	160000	160000	57000	57000
Thallium	0.5		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vanadium	--		50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Zinc	2000		50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U

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-- No NYSDEC AWQSGV available

Bold - Concentration exceeds NYSDEC AWQSGVs

NA - Compound was not analyzed by laboratory

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UJ - Analyte was not detected. The associated reported quantitation limit is an estimate

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Table 12. Summary of Metals Detected in Groundwater, Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation: Sample Date:	BMW-7 DUP 6/4/2012 Filtered	BMW-7 DUP 6/4/2012	BMW-7S 6/4/2012 Filtered	BMW-7S 6/4/2012	MW-3 6/5/2012 Filtered	MW-3 6/5/2012	MW-7 6/5/2012 Filtered	MW-7 6/5/2012
Aluminum	--		180 U	230	180 U	180 U	180 U	180 U	180 U	360
Antimony	3		12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U
Arsenic	25		7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U
Barium	1000		200	170	79	71	50 U	50 U	71	80
Beryllium	3		4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U
Cadmium	5		3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
Calcium	--		190000	210000	78000	66000	130000	130000	54000	54000
Chromium	50		50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Cobalt	--		20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Copper	200		50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Cyanide, Free	200		NA	0.02 U	NA	0.02 U	NA	0.02 U	NA	0.02 U
Iron	--		12000	11000	280 U	280 U	280 U	550	280 U	550
Lead	25		4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U
Magnesium	--		34000	41000	3500	3300	28000	29000	18000	18000
Manganese	300		710 JV	580 JV	40 U	40 U	2600	2900	1200	1300
Mercury	0.7		0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
Nickel	100		50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Potassium	--		16000	16000	30000	32000	14000	15000	15000	15000
Selenium	10		40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U
Silver	50		20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Sodium	20000		57000	53000	130000	140000	40000	42000	55000	56000
Thallium	0.5		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vanadium	--		50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Zinc	2000		50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U

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Table 12. Summary of Metals Detected in Groundwater, Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation: Sample Date:	FB-060112 6/1/2012	FB-060412 6/4/2012	FB-060512 6/5/2012	FB-060612 6/6/2012	FB-062912 6/29/2012	FB-070212 7/2/2012	FB-070312 7/3/2012
Aluminum	--		180 U	2000 U	180 U	180 U	2000 U	180 U	2000 U
Antimony	3		12 U	20 U	12 U	12 U	20 U	12 U	20 U
Arsenic	25		7.5 U	20 U	7.5 U	7.5 U	20 U	7.5 U	20 U
Barium	1000		50 U	100 U	50 U	50 U	100 U	50 U	100 U
Beryllium	3		4 U	6 U	4 U	4 U	6 U	4 U	6 U
Cadmium	5		3.5 U	6 U	3.5 U	3.5 U	6 U	3.5 U	6 U
Calcium	--		2000 U	10000 U	2000 U	2000 U	10000 U	2000 U	10000 U
Chromium	50		50 U	50 U	50 U	50 U	50 U	50 U	50 U
Cobalt	--		20 U	25 U	20 U	20 U	25 U	20 U	25 U
Copper	200		50 U	50 U	50 U	50 U	50 U	50 U	50 U
Cyanide, Free	200		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Iron	--		280 U	2000 U	280 U	280 U	2000 U	280 U	2000 U
Lead	25		4 U	50 U	4 U	4 U	50 U	4 U	50 U
Magnesium	--		2000 U	5000 U	2000 U	2000 U	5000 U	2000 U	5000 U
Manganese	300		40 U	100 U	40 U	40 U	100 U	40 U	100 U
Mercury	0.7		0.7 U	0.5 U	0.7 U	0.7 U	0.5 U	0.7 U	0.5 U
Nickel	100		50 U	50 U	50 U	50 U	50 U	50 U	50 U
Potassium	--		5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U
Selenium	10		40 U	18 U	40 U	40 U	18 U	40 U	18 U
Silver	50		20 U	15 U	20 U	20 U	15 U	20 U	15 U
Sodium	20000		5000 U	2500 U	5000 U	5000 U	2500 U	5000 U	2500 U
Thallium	0.5		10 U	12 U	10 U	10 U	12 U	10 U	12 U
Vanadium	--		50 U	100 U	50 U	50 U	100 U	50 U	100 U
Zinc	2000		50 U	100 U	50 U	50 U	100 U	50 U	100 U

NYSDEC - New York State Department of Environmental Conservation

AWQSGVs - Ambient Water-Quality Standards and Guidance Values

µg/L -Micrograms per liter

J - Estimated Value

U - Compound was analyzed for but not detected

DUP - Duplicate

-- No NYSDEC AWQSGV available

Bold - Concentration exceeds NYSDEC AWQSGVs

NA - Compound was not analyzed by laboratory

V - Value altered or qualifier added during data validation

R - Sample results rejected by validator

UJ - Analyte was not detected. The associated reported quantitation limit is an estimate

NJ - Detection is tentative in identification and estimated in value

Table 13. Summary of Polychlorinated Biphenyls Detected in Groundwater, Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation: Sample Date:	AP-4 6/1/2012	AP-5 6/6/2012	AP-6 6/6/2012	BMW-7 6/4/2012	BMW-7 DUP 6/4/2012	BMW-7S 6/4/2012	MW-3 6/5/2012	MW-7 6/5/2012
Aroclor-1016	--		0.27 U	0.25 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
Aroclor-1221	--		0.27 U	0.25 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
Aroclor-1232	--		0.27 U	0.25 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
Aroclor-1242	--		0.27 U	0.25 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
Aroclor-1248	--		0.27 U	0.25 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
Aroclor-1254	--		0.27 U	0.25 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
Aroclor-1260	--		0.27 U	0.25 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
Aroclor-1262	--		0.27 U	0.25 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
Aroclor-1268	--		0.27 U	0.25 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
Aroclor (Total)	0.09		0.27 U	0.25 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U

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AWQSGVs - Ambient Water-Quality Standards and Guidance Values

µg/L -Micrograms per liter

U - Compound was analyzed for but not detected

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- - No NYSDEC AWQSGV available

NA - Compound was not analyzed by laboratory

Table 13. Summary of Polychlorinated Biphenyls Detected in Groundwater, Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation: FB-060112 Sample Date: 6/1/2012	FB-060412 6/4/2012	FB-060512 6/5/2012	FB-060612 6/6/2012	FB-062912 6/29/2012	FB-070212 7/2/2012	FB-070312 7/3/2012
Aroclor-1016	--	0.14 U	0.27 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Aroclor-1221	--	0.14 U	0.27 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Aroclor-1232	--	0.14 U	0.27 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Aroclor-1242	--	0.14 U	0.27 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Aroclor-1248	--	0.14 U	0.27 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Aroclor-1254	--	0.14 U	0.27 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Aroclor-1260	--	0.14 U	0.27 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Aroclor-1262	--	0.14 U	0.27 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Aroclor-1268	--	0.14 U	0.27 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Aroclor (Total)	0.09	0.14 U	0.27 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U

NYSDEC - New York State Department of Environmental Conservation

AWQSGVs - Ambient Water-Quality Standards and Guidance Values

µg/L -Micrograms per liter

U - Compound was analyzed for but not detected

DUP - Duplicate

-- No NYSDEC AWQSGV available

NA - Compound was not analyzed by laboratory

Table 14. Summary of Herbicides and Pesticides Detected in Groundwater, Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation: Sample Date:	AP-4 6/1/2012	AP-5 6/6/2012	AP-6 6/6/2012	BMW-7 6/4/2012	BMW-7 DUP 6/4/2012	BMW-7S 6/4/2012	MW-3 6/5/2012	MW-7 6/5/2012
2,4,5-T	--		0.54 U	0.52 U	0.51 U	0.54 U	0.53 U	0.56 U	0.51 U	0.54 U
2,4,5-TP	0.26		0.54 U	0.52 U	0.51 U	0.54 U	0.53 U	0.56 U	0.51 U	0.54 U
2,4-D	50		0.54 U	0.52 U	0.51 U	0.54 U	0.53 U	0.56 U	0.51 U	0.54 U
4,4'-DDD	0.3		0.011 U	0.01 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U
4,4'-DDE	0.2		0.011 U	0.01 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U
4,4'-DDT	0.2		0.011 U	0.01 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U
Aldrin	0		0.011 U	0.01 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U
alpha-BHC	--		0.011 U	0.01 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U
beta-BHC	--		0.011 U	0.01 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U
Chlordane	0.05		0.11 U	0.1 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
delta-BHC	--		0.011 U	0.01 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U
Dicamba	--		0.54 U	0.52 U	0.51 U	0.54 U	0.53 U	0.56 U	0.51 U	0.54 U
Dieldrin	0.004		0.011 U	0.01 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U
Endosulfan I	--		0.011 U	0.01 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U
Endosulfan II	--		0.011 U	0.01 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U
Endosulfan sulfate	--		0.011 U	0.01 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U
Endrin aldehyde	5		0.011 U	0.01 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U
Endrin ketone	--		0.011 U	0.01 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U
Endrin	0		0.011 U	0.01 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U
gamma-BHC (Lindane)	--		0.011 U	0.01 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U
Heptachlor epoxide	0.03		0.011 U	0.01 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U
Heptachlor	0.04		0.011 U	0.01 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U
Methoxychlor	35		0.011 U	0.01 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U
Toxaphene	0.06		0.27 U	0.25 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U

NYSDEC - New York State Department of Environmental Conservation

AWQSGVs - Ambient Water-Quality Standards and Guidance Values

µg/L -Micrograms per liter

U - Compound was analyzed for but not detected

DUP - Duplicate

- - No NYSDEC AWQSGV available

Table 14. Summary of Herbicides and Pesticides Detected in Groundwater, Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation: FB-060112 Sample Date: 6/1/2012	FB-060412 6/4/2012	FB-060512 6/5/2012	FB-060612 6/6/2012	FB-062912 6/29/2012	FB-070212 7/2/2012	FB-070312 7/3/2012
2,4,5-T	--	0.54 U	0.53 U	0.54 U	0.53 U	0.53 U	0.56 U	0.53 U
2,4,5-TP	0.26	0.54 U	0.53 U	0.54 U	0.53 U	0.53 U	0.56 U	0.53 U
2,4-D	50	0.54 U	0.53 U	0.54 U	0.53 U	0.53 U	0.56 U	0.53 U
4,4'-DDD	0.3	0.0057 U	0.011 U	0.01 U	0.011 U	0.011 U	0.011 U	0.011 U
4,4'-DDE	0.2	0.0057 U	0.011 U	0.01 U	0.011 U	0.011 U	0.011 U	0.011 U
4,4'-DDT	0.2	0.0057 U	0.011 U	0.01 U	0.011 U	0.011 U	0.011 U	0.011 U
Aldrin	0	0.0057 U	0.011 U	0.01 U	0.011 U	0.011 U	0.011 U	0.011 U
alpha-BHC	--	0.0057 U	0.011 U	0.01 U	0.011 U	0.011 U	0.011 U	0.011 U
beta-BHC	--	0.0057 U	0.011 U	0.01 U	0.011 U	0.011 U	0.011 U	0.011 U
Chlordane	0.05	0.057 U	0.11 U	0.1 U	0.11 U	0.11 U	0.11 U	0.11 U
delta-BHC	--	0.0057 U	0.011 U	0.01 U	0.011 U	0.011 U	0.011 U	0.011 U
Dicamba	--	0.54 U	0.53 U	0.54 U	0.53 U	0.53 U	0.56 U	0.53 U
Dieldrin	0.004	0.0057 U	0.011 U	0.01 U	0.011 U	0.011 U	0.011 U	0.011 U
Endosulfan I	--	0.0057 U	0.011 U	0.01 U	0.011 U	0.011 U	0.011 U	0.011 U
Endosulfan II	--	0.0057 U	0.011 U	0.01 U	0.011 U	0.011 U	0.011 U	0.011 U
Endosulfan sulfate	--	0.0057 U	0.011 U	0.01 U	0.011 U	0.011 U	0.011 U	0.011 U
Endrin aldehyde	5	0.0057 U	0.011 U	0.01 U	0.011 U	0.011 U	0.011 U	0.011 U
Endrin ketone	--	0.0057 U	0.011 U	0.01 U	0.011 U	0.011 U	0.011 U	0.011 U
Endrin	0	0.0057 U	0.011 U	0.01 U	0.011 U	0.011 U	0.011 U	0.011 U
gamma-BHC (Lindane)	--	0.0057 U	0.011 U	0.01 U	0.011 U	0.011 U	0.011 U	0.011 U
Heptachlor epoxide	0.03	0.0057 U	0.011 U	0.01 U	0.011 U	0.011 U	0.011 U	0.011 U
Heptachlor	0.04	0.0057 U	0.011 U	0.01 U	0.011 U	0.011 U	0.011 U	0.011 U
Methoxychlor	35	0.0057 U	0.011 U	0.01 U	0.011 U	0.011 U	0.011 U	0.011 U
Toxaphene	0.06	0.14 U	0.27 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U

NYSDEC - New York State Department of Environmental Conservation

AWQSGVs - Ambient Water-Quality Standards and Guidance Values

µg/L -Micrograms per liter

U - Compound was analyzed for but not detected

DUP - Duplicate

-- No NYSDEC AWQSGV available

Table 15. Summary of Total Organic Carbon Detected in Groundwater, Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter (Concentrations in µg/L)	Sample Designation:	AP-4
	Sample Date:	6/1/2012
Total Organic Carbon		5.3

µg/L -Micrograms per liter

Table 16. Summary of Volatile Organic Compounds Detected in Soil Vapor, Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter	Sample Designation: AMB-100512	AMB-100812	AMBIENT BACKGROUND-1	AMB-071713	SV-AP1	SV-AP1	SV-AP2	SV-AP3
Sample Date:	10/5/2012	10/8/2012	3/5/2013	7/17/2013	10/8/2012	7/17/2013	10/5/2012	10/5/2012
(Concentrations in $\mu\text{g}/\text{m}^3$)								
1,1,1-Trichloroethane	1.1 U	1.1 U	1.1 U	1.1 U	65	40	1.1 U	360 U
1,1,2,2-Tetrachloroethane	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	450 U
1,1,2-Trichloroethane	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	360 U
1,1-Dichloroethane	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	270 U
1,1-Dichloroethene	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	260 U
1,2,4-Trichlorobenzene	3.7 U	3.7 U	3.7 UJV	3.7 U	3.7 U	3.7 U	3.7 U	1200 U
1,2,4-Trimethylbenzene	1.3	0.98 U	0.98 U	0.98 U	0.98 U	7.7	2.6	320 U
1,2-Dibromoethane	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	510 U
1,2-Dichlorobenzene	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	400 U
1,2-Dichloroethane	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	1.5	0.81 U	270 U
1,2-Dichloroethene (total)	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	1600
1,2-Dichloropropane	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	310 U
1,3,5-Trimethylbenzene	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	2.3	0.98 U	320 U
1,3-Butadiene	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	150 U
1,3-Dichlorobenzene	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	400 U
1,4-Dichlorobenzene	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	400 U
1,4-Dioxane	18 U	18 U	18 U	18 U	18 U	18 U	18 U	5900 U
2-Butanone (MEK)	2.9	1.5 U	1.5 U	1.5 U	1.5 U	3.7	1.5 U	490 U
2-Chlorotoluene	1.0 U	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	340 U
2-Hexanone	2.0 U	2.0 U	2 U	2.0 U	2.0 U	2.0 U	2.0 U	680 U
3-Chloropropene	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	520 U
4-Ethyltoluene	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	1.5	0.98 U	320 U
4-Methyl-2-pentanone (MIBK)	2.0 U	2.0 U	2 U	2.0 U	2.0 U	2.0 U	2.1	680 U
Acetone	26	12 U	12 U	24	12 U	73	12	3900 U
Benzene	1.5	0.83	1.8	0.64 U	0.64 U	1.1	6.1	210 U
Bromodichloromethane	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	440 U
Bromoethene	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	290 U
Bromoform	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	680 U
Bromomethane	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	260 U
Carbon disulfide	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	510 U
Carbon tetrachloride	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	420 U
Chlorobenzene	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	300 U
Chloroethane	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	440 U
Chloroform	0.98 U	0.98 U	0.98 U	0.98 U	1.9	1.2	7.6	320 U
Chloromethane	1.2	1.1	1.5	1.3	1.0 U	1.0 U	2.5	340 U
cis-1,2-Dichloroethene	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	1500
cis-1,3-Dichloropropene	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	300 U

Table 16. Summary of Volatile Organic Compounds Detected in Soil Vapor, Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter	Sample Designation: AMB-100512	AMB-100812	AMBIENT BACKGROUND-1	AMB-071713	SV-AP1	SV-AP1	SV-AP2	SV-AP3
Sample Date:	10/5/2012	10/8/2012	3/5/2013	7/17/2013	10/8/2012	7/17/2013	10/5/2012	10/5/2012
(Concentrations in µg/m ³)								
Cyclohexane	0.69 U	0.69 U	0.69 U	0.96	0.69 U	0.69 U	0.69 U	230 U
Dibromochloromethane	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	560 U
Dichlorodifluoromethane	3.1	2.9	3	2.5	2.5 U	2.5 U	2.5 U	820 U
Ethylbenzene	0.87 U	0.87 U	1.7	0.87 U	0.87 U	2.1	0.95	290 U
Freon 113	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	510 U
Freon 114	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	460 U
Hexachlorobutadiene	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	700 U
Isooctane	1.1	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	310 U
Isopropanol	12 U	12 U	12 U	12 U	12 U	12 U	12 U	4100 U
m+p-Xylene	2.5	2.2 U	7.4	2.2 U	2.2 U	8.5	3.2	720 U
Methylene chloride	1.7 U	2	1.8	2	1.7 U	1.7 U	1.7 U	570 U
MTBE	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	240 U
n-Heptane	0.86	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	270 U
n-Hexane	0.95	0.82	0.7 U	0.70 U	0.70 U	0.70 U	0.70 U	230 U
o-Xylene	0.95	0.87 U	1.5	0.87 U	0.87 U	3.6	1.3	290 U
Styrene	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	1.7	0.85 U	280 U
t-Butyl Alcohol	15 U	15 U	15 U	15 U	15 U	15 U	15 U	5000 U
Tetrachloroethene	7.2	1.4 U	1.4 U	4.3	110	76	38	37000
Tetrahydrofuran	15 U	15 U	15 U	15 U	15 U	15 U	15 U	4900 U
Toluene	4.3	4.5	4.8	0.75 U	1.3	17	4.3	250 U
trans-1,2-Dichloroethene	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	260 U
trans-1,3-Dichloropropene	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	300 U
Trichloroethene	1.1 U	1.1 U	1.1 U	3.4	1.1 U	1.1 U	2.5	4700
Trichlorofluoromethane	1.9	1.6	1.4	1.5	1.8	2.3	1.3	370 U
Vinyl chloride	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	170 U
Xylenes (total)	3.4	2.2	8.8	0.87 U	1.1	12	4.5	290 U

µg/m³ - Micrograms per cubic meter

Bold data indicates that parameter was detected

U - Indicates that the compound was analyzed for but not detected

V - Value altered or qualifier added during data validation

R - Sample results rejected by validator

UJ - Analyte was not detected. Associated reported quantitation limit is an estimate

NJ - Detection is tentative in identification and estimated in value

Table 16. Summary of Volatile Organic Compounds Detected in Soil Vapor, Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter	Sample Designation: SV-AP3	SV-AP4	SV-AP5	SV-AP6	SV-AP7	SV-AP8	SV-AP9	SV-AP10
Sample Date:	7/17/2013	10/5/2012	3/5/2013	3/5/2013	7/17/2013	7/17/2013	7/17/2013	7/17/2013
(Concentrations in $\mu\text{g}/\text{m}^3$)								
1,1,1-Trichloroethane	110 U	600 U	1.1 U	2.7 U	16	5.5 U	26	30
1,1,2,2-Tetrachloroethane	140 U	760 U	1.4 U	3.4 U	5.5 U	6.9 U	8.3 U	14 U
1,1,2-Trichloroethane	110 U	600 U	1.1 U	2.7 U	4.4 U	5.5 U	6.6 U	11 U
1,1-Dichloroethane	83 U	450 U	0.81 U	2 U	3.2 U	4.0 U	4.9 U	8.1 U
1,1-Dichloroethene	81 U	440 U	0.79 U	2 U	3.2 U	4.0 U	4.8 U	7.9 U
1,2,4-Trichlorobenzene	380 U	2100 U	3.7 UJV	9.3 UJV	15 U	19 U	22 U	37 U
1,2,4-Trimethylbenzene	100 U	540 U	3.3	2.5 U	3.9 U	4.9 U	6.0 U	9.8 U
1,2-Dibromoethane	160 U	850 U	1.5 U	3.8 U	6.1 U	7.7 U	9.3 U	15 U
1,2-Dichlorobenzene	120 U	670 U	1.2 U	3 U	4.8 U	6.0 U	7.3 U	12 U
1,2-Dichloroethane	83 U	450 U	0.81 U	2 U	3.2 U	4.0 U	4.9 U	8.1 U
1,2-Dichloroethene (total)	1600	1500	0.79 U	2 U	3.2 U	4.0 U	4.8 U	7.9 U
1,2-Dichloropropane	94 U	510 U	0.92 U	2.3 U	3.7 U	4.6 U	5.6 U	9.2 U
1,3,5-Trimethylbenzene	100 U	540 U	0.98 U	2.5 U	3.9 U	4.9 U	6.0 U	9.8 U
1,3-Butadiene	45 U	250 U	0.83	25	1.8 U	2.2 U	2.7 U	4.4 U
1,3-Dichlorobenzene	120 U	670 U	1.2 U	3 U	4.8 U	6.0 U	7.3 U	12 U
1,4-Dichlorobenzene	120 U	670 U	1.2 U	3 U	4.8 U	6.0 U	7.3 U	12 U
1,4-Dioxane	1800 U	10000 U	18 U	45 U	72 U	90 U	110 U	180 U
2-Butanone (MEK)	150 U	820 U	2.1	3.7 U	12	8.5	10	18
2-Chlorotoluene	110 U	570 U	1 U	2.6 U	4.1 U	5.2 U	6.3 U	10 U
2-Hexanone	210 U	1100 U	2 U	5.1 U	8.2 U	10 U	12 U	20 U
3-Chloropropene	160 U	870 U	1.6 U	3.9 U	6.3 U	7.8 U	9.5 U	16 U
4-Ethyltoluene	100 U	540 U	0.97	2.5 U	3.9 U	4.9 U	6.0 U	9.8 U
4-Methyl-2-pentanone (MIBK)	210 U	1100 U	2 U	5.1 U	8.2 U	10 U	12 U	20 U
Acetone	1200 U	6600 U	13	30 U	230	270	320	650
Benzene	65 U	350 U	3	6.2	2.6 U	3.2 U	3.9 U	6.4 U
Bromodichloromethane	140 U	740 U	1.3 U	3.4 U	5.4 U	6.7 U	8.1 U	13 U
Bromoethene	89 U	480 U	0.87 U	2.2 U	3.5 U	4.4 U	5.3 U	8.7 U
Bromoform	210 U	1100 U	2.1 U	5.2 U	8.3 U	10 U	13 U	21 U
Bromomethane	79 U	430 U	0.78 U	1.9 U	3.1 U	3.9 U	4.7 U	7.8 U
Carbon disulfide	160 U	860 U	4.6	6.1	6.4	61	33	41
Carbon tetrachloride	130 U	700 U	1.3 U	3.1 U	5.0 U	6.3 U	7.6 U	13 U
Chlorobenzene	94 U	510 U	0.92 U	2.3 U	3.7 U	4.6 U	5.6 U	9.2 U
Chloroethane	130 U	730 U	1.3 U	3.3 U	5.3 U	6.6 U	8.0 U	13 U
Chloroform	100 U	540 U	1.2	2.4 U	3.9 U	13	450	10
Chloromethane	110 U	570 U	1 U	2.6 U	4.1 U	5.2 U	6.3 U	10 U
cis-1,2-Dichloroethene	1400	1400	0.79 U	2 U	3.2 U	4.0 U	4.8 U	7.9 U
cis-1,3-Dichloropropene	93 U	500 U	0.91 U	2.3 U	3.6 U	4.5 U	5.5 U	9.1 U

Table 16. Summary of Volatile Organic Compounds Detected in Soil Vapor, Operable Unit 1, Pfizer Inc Site B and Site D, Brooklyn, New York

Parameter	Sample Designation: SV-AP3	SV-AP4	SV-AP5	SV-AP6	SV-AP7	SV-AP8	SV-AP9	SV-AP10
Sample Date:	7/17/2013	10/5/2012	3/5/2013	3/5/2013	7/17/2013	7/17/2013	7/17/2013	7/17/2013
(Concentrations in $\mu\text{g}/\text{m}^3$)								
Cyclohexane	70 U	380 U	1.2	3.4	2.8 U	3.4 U	4.2 U	6.9 U
Dibromochloromethane	170 U	940 U	1.7 U	4.3 U	6.8 U	8.5 U	10 U	17 U
Dichlorodifluoromethane	250 U	1400 U	2.9	6.2 U	9.9 U	12 U	15 U	25 U
Ethylbenzene	89 U	480 U	5.3	4.1	3.5 U	4.3 U	5.3 U	8.7 U
Freon 113	160 U	850 U	1.5 U	3.8 U	6.1 U	7.7 U	9.3 U	15 U
Freon 114	140 U	770 U	1.4 U	3.5 U	5.6 U	7.0 U	8.5 U	14 U
Hexachlorobutadiene	220 U	1200 U	2.1 U	5.3 U	8.5 U	11 U	13 U	21 U
Isooctane	95 U	520 U	0.93 U	2.3 U	3.7 U	4.7 U	5.7 U	9.3 U
Isopropanol	1300 U	6800 U	12 U	31 U	49 U	61 U	74 U	120 U
m+p-Xylene	220 U	1200 U	25	19	8.7 U	11 U	13 U	22 U
Methylene chloride	180 U	960 U	1.7 U	4.3 U	6.9 U	8.7 U	11 U	17 U
MTBE	74 U	400 U	0.72 U	1.8 U	2.9 U	3.6 U	4.4 U	7.2 U
n-Heptane	84 U	450 U	2.4	9.1	3.3 U	4.1 U	5.0 U	8.2 U
n-Hexane	72 U	390 U	3.3	17	2.8 U	3.5 U	4.3 U	7.0 U
o-Xylene	89 U	480 U	7.8	5.5	3.5 U	4.3 U	5.3 U	8.7 U
Styrene	87 U	470 U	1.7	2.1 U	3.4 U	4.3 U	5.2 U	8.5 U
t-Butyl Alcohol	1500 U	8400 U	15 U	38 U	61 U	76 U	92 U	150 U
Tetrachloroethene	23000	76000	16	430	360	31	8.2 U	14 U
Tetrahydrofuran	1500 U	8200 U	15 U	37 U	59 U	74 U	89 U	150 U
Toluene	77 U	420 U	7.3	7.5	5.7	4.3	5.7	7.5 U
trans-1,2-Dichloroethene	120	440 U	0.79 U	2 U	3.2 U	4.0 U	4.8 U	7.9 U
trans-1,3-Dichloropropene	93 U	500 U	0.91 U	2.3 U	3.6 U	4.5 U	5.5 U	9.1 U
Trichloroethene	4000	6100	1.1 U	28	13	5.4 U	7	11 U
Trichlorofluoromethane	110 U	620 U	3.4	2.8 U	4.5 U	5.6 U	6.8 U	11 U
Vinyl chloride	52 U	280 U	0.51 U	1.3 U	2.0 U	2.6 U	3.1 U	5.1 U
Xylenes (total)	89 U	480 U	33	25	4.2	4.3 U	5.4	8.7 U

$\mu\text{g}/\text{m}^3$ - Micrograms per cubic meter

Bold data indicates that parameter was detected

U - Indicates that the compound was analyzed for but not detected

V - Value altered or qualifier added during data validation

R - Sample results rejected by validator

UJ - Analyte was not detected. Associated reported quantitation limit is an estimate

NJ - Detection is tentative in identification and estimated in value

Table 16a. Summary of Volatile Organic Compounds Detected in Soil Vapor*
1849/1869 Lot and Site B, Pfizer Inc, Brooklyn, New York

Parameter	Sample Designation: Sample Date:	SV-1 4/5/2007	SV-2 4/5/2007	SV-3 4/5/2007	SV-4 4/5/2007	SV-5 4/5/2007	SV-6 4/5/2007	SV-P1 2/23/2012	SV-P2 2/23/2012
(Concentrations in µg/m ³)									
1,1,1-Trichloroethane		9.3	4.9 JV	1.1 UJV	1.1 UJV	1.1 U	7.1 JV	1.1 U	3.5
1,1,2,2-Tetrachloroethane		1.4 U	1.4 UJV	1.4 UJV	1.4 UJV	1.4 U	2.7 UJV	1.4 U	1.4 U
1,1,2-Trichloroethane		1.1 U	1.1 UJV	1.1 UJV	1.1 UJV	1.1 U	2.2 UJV	1.1 U	1.1 U
1,1-Dichloroethane		3.1	5.3 JV	0.81 UJV	0.81 UJV	0.81 U	2.3 JV	0.81 U	0.81 U
1,1-Dichloroethene		0.79 U	0.79 UJV	0.79 UJV	0.79 UJV	0.79 U	1.6 UJV	0.79 U	0.79 U
1,2,4-Trichlorobenzene		3.7 UJV	3.7 UJV	3.7 UJV	3.7 UJV	3.7 UJV	7.4 UJV	3.7 U	3.7 U
1,2,4-Trimethylbenzene		2.4	3.0 JV	1.4 JV	0.98 UJV	2.8	2.0 UJV	0.98 U	0.98 U
1,2-Dibromoethane		1.5 U	1.5 UJV	1.5 UJV	1.5 UJV	1.5 U	3.1 UJV	1.5 U	1.5 U
1,2-Dichlorobenzene		1.2 U	1.2 UJV	1.2 UJV	1.2 UJV	1.2 U	2.4 UJV	1.2 U	1.2 U
1,2-Dichloroethane		0.81 U	0.81 UJV	0.81 UJV	0.81 UJV	0.81 U	1.6 UJV	0.81 U	0.81 U
1,2-Dichloroethene (total)		0.79 U	0.79 UJV	0.79 UJV	0.79 UJV	0.79 U	1.6 UJV	2.5	0.79 U
1,2-Dichloropropane		0.92 U	0.92 UJV	0.92 UJV	0.92 UJV	0.92 U	1.8 UJV	0.92 U	0.92 U
1,3,5-Trimethylbenzene		0.98 U	1.1 UJV	0.98 UJV	0.98 UJV	0.98 U	2.0 UJV	0.98 U	0.98 U
1,3-Butadiene		1.1 U	1.1 UJV	1.1 UJV	1.1 UJV	1.1 U	2.2 UJV	0.44 U	0.44 U
1,3-Dichlorobenzene		1.2 U	1.2 UJV	1.2 UJV	1.2 UJV	1.2 U	2.4 UJV	1.2 U	1.2 U
1,4-Dichlorobenzene		1.2 U	1.2 UJV	1.2 UJV	1.2 UJV	1.2 U	2.4 UJV	1.2 U	1.2 U
1,4-Dioxane		18 U	34 JV	18 UJV	18 UJV	18 U	36 UJV	18 U	18 U
2-Butanone (MEK)		1.8	9.7 JV	4.4 JV	2.4 JV	5.9	7.1 JV	1.5 U	1.5 U
2-Chlorotoluene		1.0 U	1.0 UJV	1.0 UJV	1.0 UJV	1.0 U	2.1 UJV	1 U	1 U
2-Hexanone		2.0 U	2.4 JV	2.0 UJV	2.0 UJV	2.0 U	4.1 UJV	2 U	2 U
3-Chloropropene		1.6 U	1.6 UJV	1.6 UJV	1.6 UJV	1.6 U	3.1 UJV	1.6 U	1.6 U
4-Ethyltoluene		2.5	2.7 UJV	1.5 JV	0.98 UJV	2.5	2.0 UJV	0.98 U	0.98 U
4-Methyl-2-pentanone (MIBK)		2.0 U	2.0 UJV	3.9 JV	2.0 UJV	2.0 U	4.1 UJV	2 U	2 U
Acetone		12 U	95 JV	48 JV	20 JV	50	110 JV	26	39
Benzene		3.2	2.9 JV	7.7 JV	2.8 JV	0.77	2.2 JV	0.97	0.64 U
Bromodichloromethane		1.3 U	1.3 UJV	1.3 UJV	1.3 UJV	1.3 U	2.7 UJV	2.7	1.3 U
Bromoethene		0.87 U	0.87 UJV	0.87 UJV	0.87 UJV	0.87 U	1.7 UJV	0.87 U	0.87 U
Bromoform		2.1 U	2.1 UJV	2.1 UJV	2.1 UJV	2.1 U	4.1 UJV	2.1 U	2.1 U
Bromomethane		0.78 U	0.78 UJV	0.78 UJV	0.78 UJV	0.78 U	1.6 UJV	0.78 U	0.78 U
Carbon disulfide		4.4	2.3 JV	1.6 UJV	1.6 UJV	1.6 U	3.1 UJV	5.3	1.6 U
Carbon tetrachloride		1.3	1.3 UJV	1.3 UJV	1.3 UJV	1.3 U	2.5 UJV	1.7	18
Chlorobenzene		0.92 U	0.92 UJV	2.0 JV	0.92 UJV	0.92 U	1.8 UJV	0.92 U	0.92 U
Chloroethane		1.3 U	1.3 UJV	1.3 UJV	1.3 UJV	1.3 U	2.6 UJV	1.3 U	1.3 U
Chloroform		2.9	6.3 JV	17 JV	0.98 UJV	4.7	63 JV	51	26
Chloromethane		1.0 U	1.0 UJV	1.0 UJV	1.0 UJV	1.0 U	2.1 UJV	1 U	1 U
cis-1,2-Dichloroethene		0.79 U	0.79 UJV	0.79 UJV	0.79 UJV	0.79 U	1.6 UJV	2.5	0.79 U
cis-1,3-Dichloropropene		0.91 U	0.91 UJV	0.91 UJV	0.91 UJV	0.91 U	1.8 UJV	0.91 U	0.91 U
Cyclohexane		2.9	1.3 JV	0.69 JV	0.69 UJV	0.69 U	2.5 JV	43	40
Dibromochloromethane		1.7 U	1.7 UJV	1.7 UJV	1.7 UJV	1.7 U	3.4 UJV	1.7 U	1.7 U
Dichlorodifluoromethane		2.8	2.6 JV	2.5 UJV	2.5 UJV	2.5	4.9 UJV	2.7	2.7
Ethylbenzene		3.9	2.3 NJV	2.0 JV	1.1 JV	2.2	1.7 UJV	4.9	3.5
Freon 113		1.5 U	1.5 UJV	1.5 UJV	1.5 UJV	1.5 U	3.1 UJV	1.5 U	1.5 U
Freon 114		1.4 U	1.4 UJV	1.4 UJV	1.4 UJV	1.4 U	2.8 UJV	1.4 U	1.4 U
Hexachlorobutadiene		2.1 UJV	2.1 UJV	2.1 UJV	2.1 UJV	2.1 UJV	4.3 UJV	2.1 U	2.1 U
Isooctane		1.5	0.93 UJV	1.1 JV	0.93 UJV	0.93 U	1.9 UJV	1	0.93 U
Isopropanol		12 U	12 UJV	12 UJV	12 UJV	12 U	25 UJV	12 U	12 U
m+p-Xylene		NA	NA	NA	NA	NA	NA	19	15
Methyl Methacrylate		2.0 U	2.0 UJV	2.0 UJV	2.0 UJV	2.0 U	4.1 UJV	NA	NA
Methylene chloride		1.7 U	1.7 UJV	14 JV	1.7 UJV	1.7 U	3.5 UJV	1.7 U	1.7 U
MTBE		1.8 U	1.8 UJV	1.8 UJV	1.8 UJV	1.8 U	3.6 UJV	0.72 U	0.72 U
Naphthalene		2.6 UJV	2.6 UJV	2.6 UJV	2.6 UJV	2.6 UJV	5.2 UJV	NA	NA
n-Heptane		5.3	2.3 JV	1.8 JV	0.94 JV	2.2	1.7 JV	1.7	0.82 U
n-Hexane		11	2.5 JV	6.3 JV	3.3 JV	1.8 U	3.5 UJV	31	0.7 U
o-Xylene		NA	NA	NA	NA	NA	NA	10	7.4
Styrene		1.2	0.85 UJV	0.85 UJV	0.85 UJV	0.85 U	1.7 UJV	140	10
t-Butyl Alcohol		15 U	15 UJV	15 UJV	15 UJV	15 U	30 UJV	15 U	15 U
Tetrachloroethene		1.4	2.6 JV	1.4 JV	1.4 UJV	3.1	5.8 JV	5.1	19
Tetrahydrofuran		15 U	15 UJV	15 UJV	15 UJV	15 U	29 UJV	15 U	15 U
Toluene		31	14 JV	15 JV	7.2 JV	12	9.4 JV	6.2	3.6
trans-1,2-Dichloroethene		0.79 U	0.79 UJV	0.79 UJV	0.79 UJV	0.79 U	1.6 UJV	0.79 U	0.79 U
trans-1,3-Dichloropropene		0.91 U	0.91 UJV	0.91 UJV	0.91 UJV	0.91 U	1.8 UJV	0.91 U	0.91 U
Trichloroethene		1.1 U	1.1 UJV	1.1 UJV	1.1 UJV	1.1 U	4.9 JV	1.3	1.1 U
Trichlorofluoromethane		1.2	1.2 JV	1.1 JV	1.1 UJV	1.2	2.2 UJV	1.4	1.3
Vinyl chloride		0.51 U	0.51 UJV	0.51 UJV	0.51 UJV	0.51 U	1.0 UJV	0.51 U	0.51 U
Xylenes (total)		21	12 NJV	9.6 JV	5.2 JV	12	7.8 JV	29	22.4

*These data were not collected as part of the Remedial Investigation and are provided for informational purposes

µg/m³ - Micrograms per cubic meter

Bold data indicates that parameter was detected

NA - Compound was not analyzed by laboratory

U - Indicates that the compound was analyzed for but not detected

J - Estimated value

V - Value altered or qualifier added during data validation

UJ - Analyte was not detected. Associated reported quantitation limit is an estimate

NJ - Detection is tentative in identification and estimated in value

Remedial Investigation Report for Operable Unit 1

FIGURE

1. Site Location Map



QUADRANGLE LOCATION



SOURCE:
USGS; Brooklyn, New York
7.5 Minute Topographic Quadrangle

0 2000'

Title:

SITE LOCATION MAP

SITE B AND SITE D OU-1 RIR

Prepared for:

PFIZER INC
BROOKLYN, NEW YORK

ROUX
ROUX ASSOCIATES, INC.
Environmental Consulting
& Management

Compiled by: W.K.	Date: 16DEC13
Prepared by: J.A.D.	Scale: AS SHOWN
Project Mgr.: W.K.	Project No.: 0047.0044Y039
File: 0047.0044Y536R.12.CDR	

FIGURE

1

Remedial Investigation Report for Operable Unit 1

APPENDICES

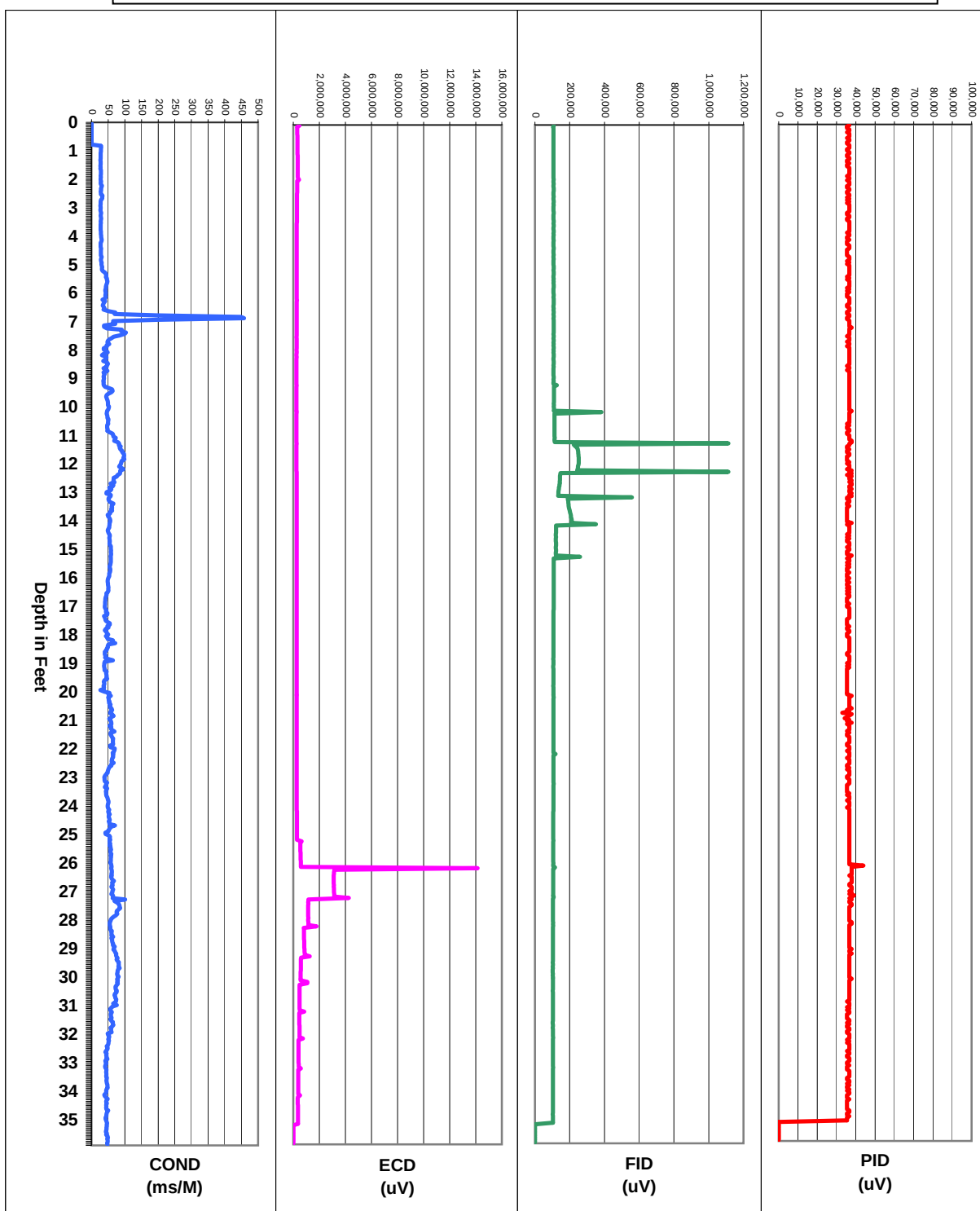
- A. Membrane Interface Probe and Hydraulic Profiling Tool Logs
- B. Soil Boring Logs
- C. Monitoring Well Sampling Forms
- D. Monitoring Well Construction Logs
- E. Test Pit Photographs
- F. Community Air Monitoring Data
- G. Data Usability Summary Reports
- H. Hazardous Waste Manifests

**Remedial Investigation Report
for Operable Unit 1**

APPENDIX A

**Membrane Interface Probe and
Hydraulic Profiling Tool Logs**

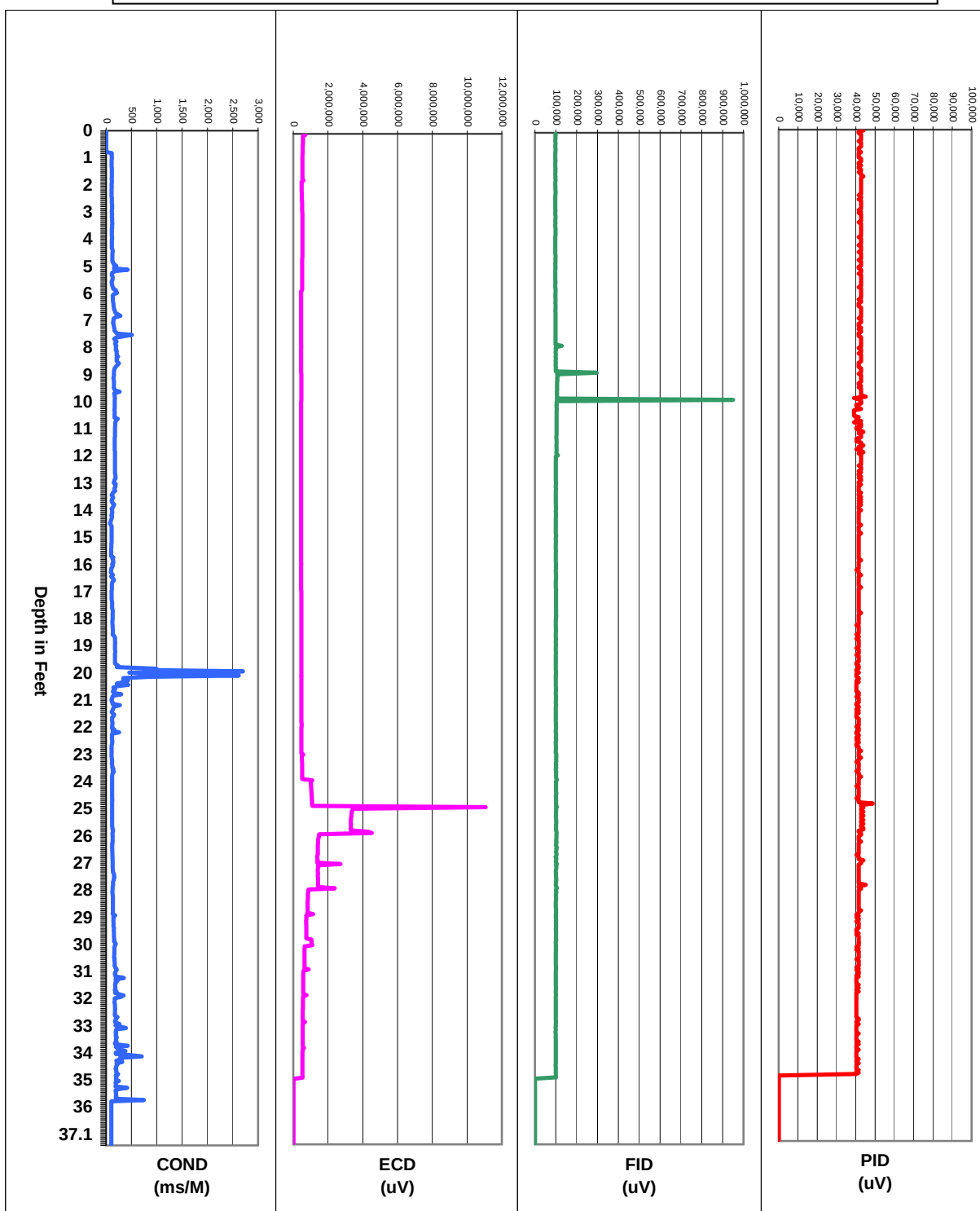
ZEBRA EC/MIP Summary Log, Point MIP1 Brooklyn NY



for: ROUX
 by: Zebra Environmental
 30 No. Prospect Avenue
 Lynbrook, NY 11563
 (516) 596-6300

Date: 3/22/2012
 Proj. Name: PFIZER SITE
 Proj. #: DS20239
 Operators: John D.
 Point 1 of 0

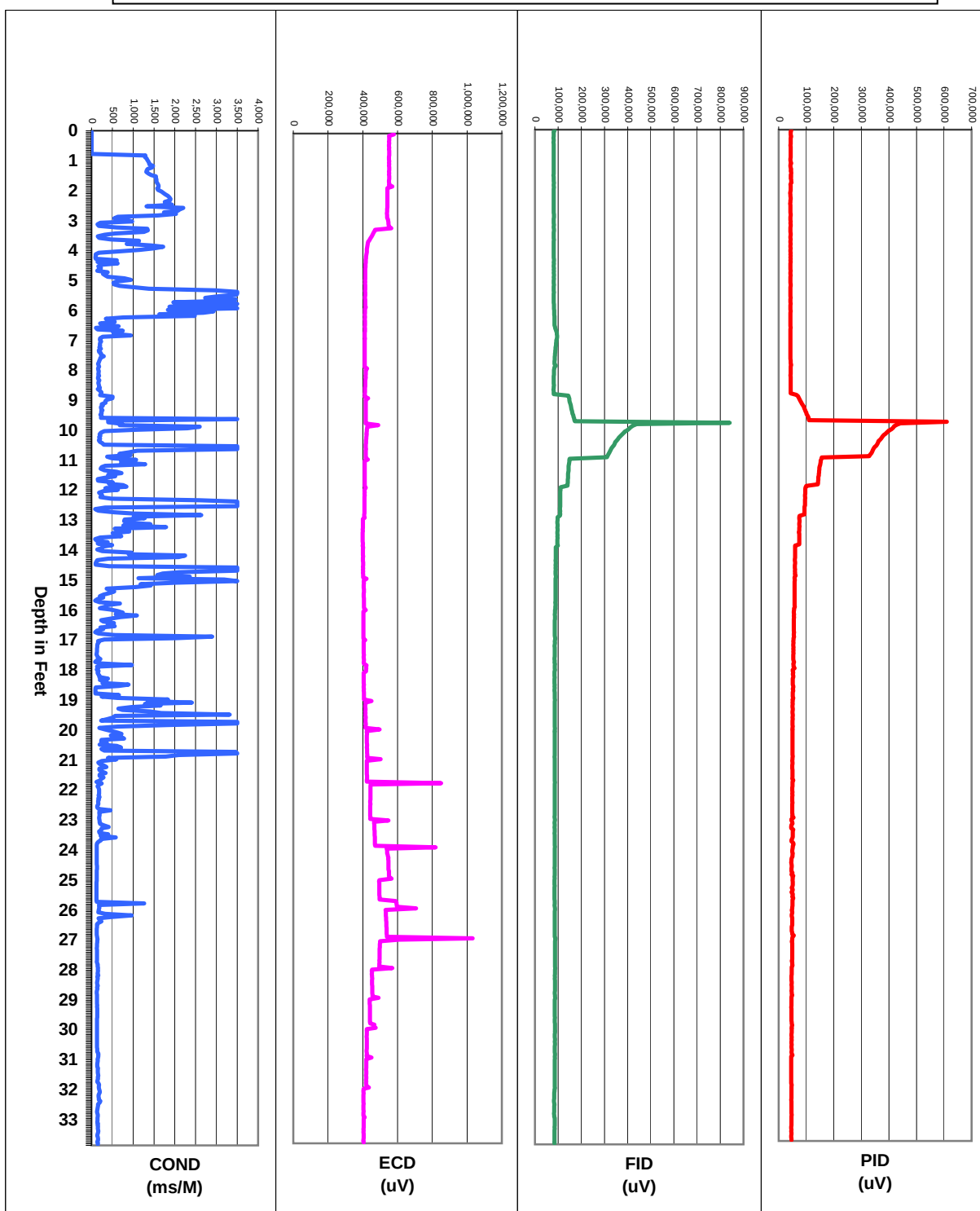
ZEBRA EC/MIP Summary Log, Point MIP2 Brooklyn NY



for: ROUX
by: Zebra Environmental
30 No. Prospect Avenue
Lynbrook, NY 11563
(516) 596-6300

Date: 3/22/2012
Proj. Name: PFIZER SITE
Proj. #: DS20239
Operators: John D.
Point 2 of 0

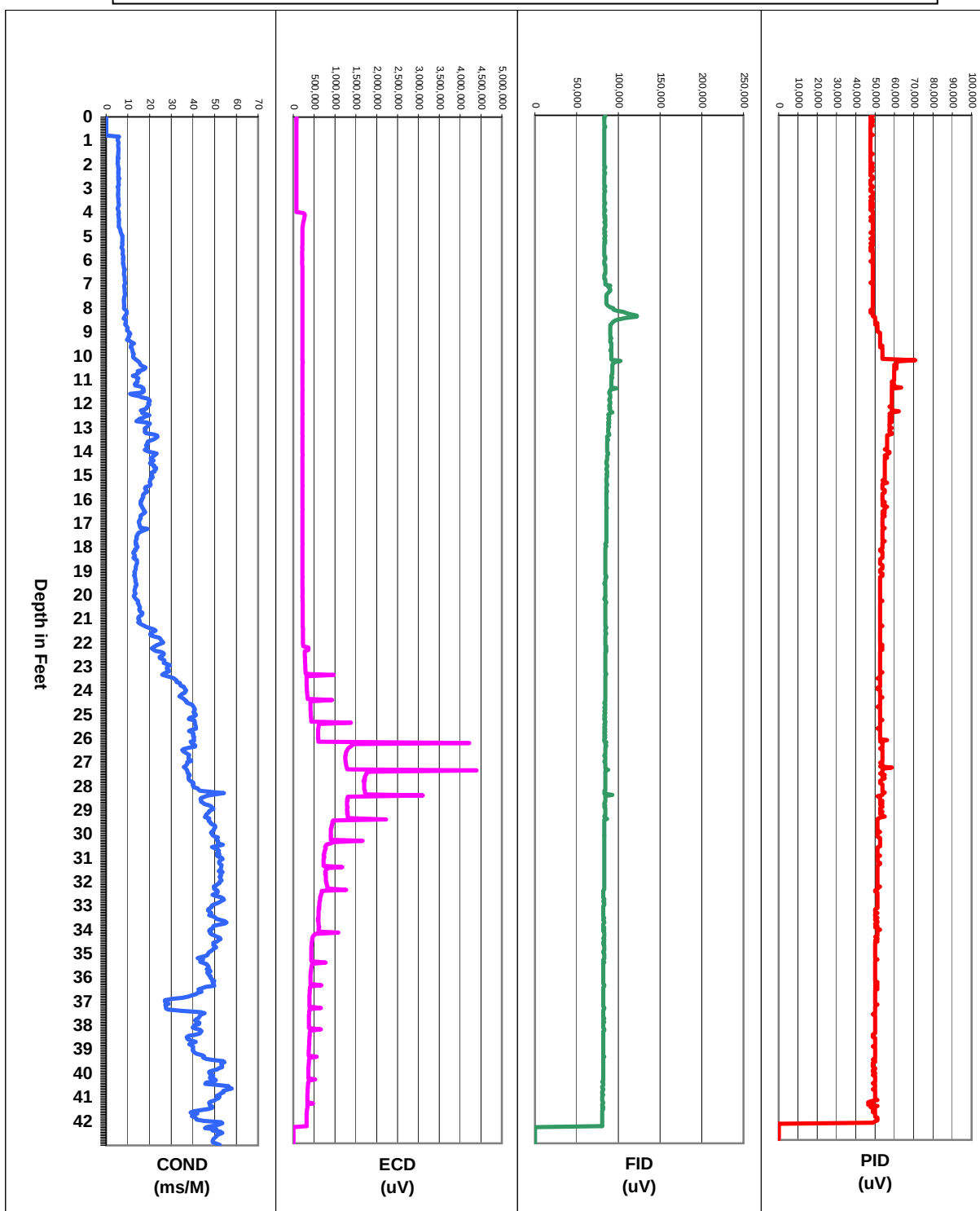
ZEBRA EC/MIP Summary Log, Point MIP3 Brooklyn NY



for: ROUX
by: Zebra Environmental
30 No. Prospect Avenue
Lynbrook, NY 11563
(516) 596-6300

Date: 3/22/2012
Proj. Name: PFIZER SITE
Proj. #: DS20239
Operators: John D.
Point 3 of 0

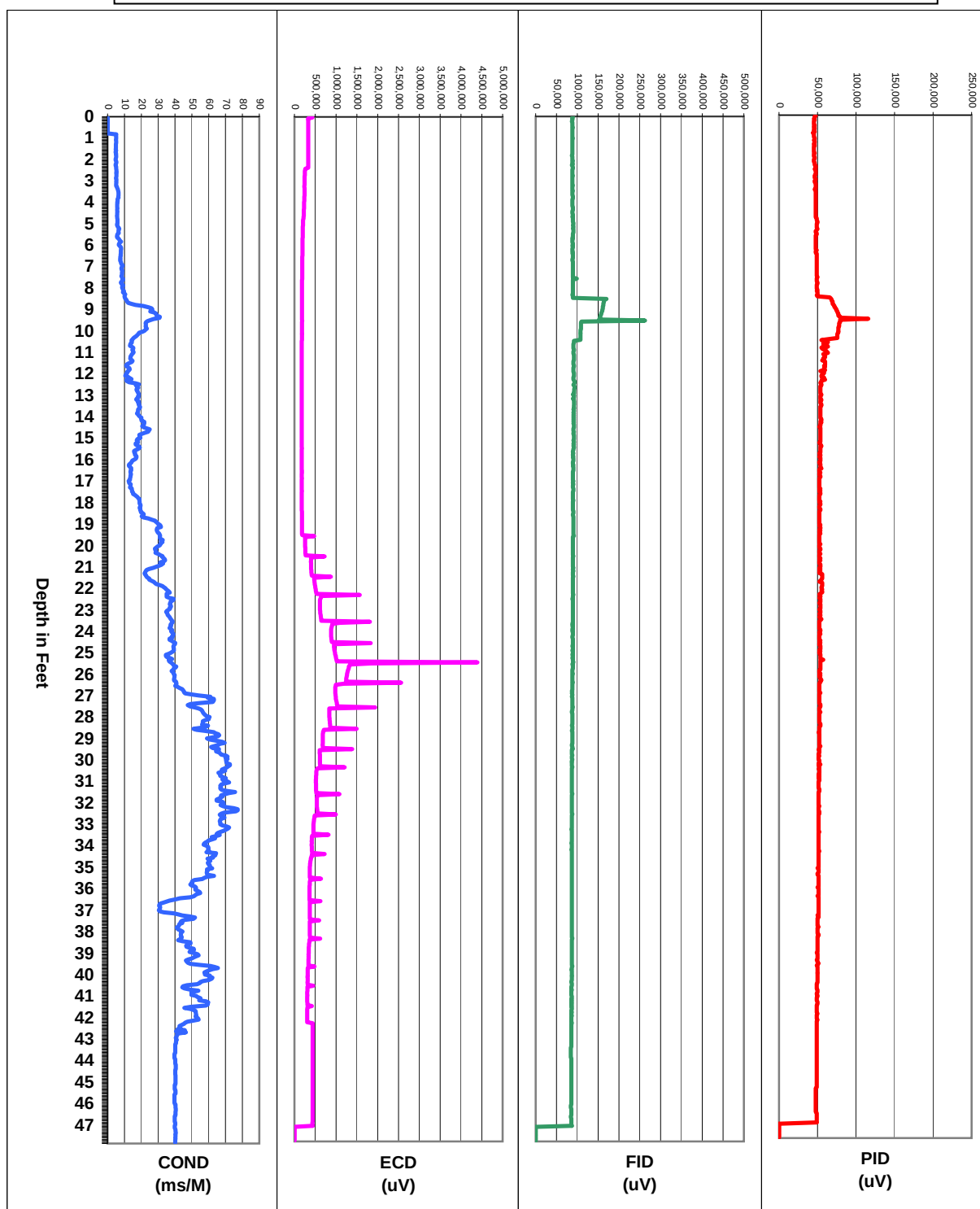
ZEBRA EC/MIP Summary Log, Point MIP4 Brooklyn NY



for: ROUX
by: Zebra Environmental
30 No. Prospect Avenue
Lynbrook, NY 11563
(516) 596-6300

Date: 3/23/2012
Proj. Name: PFIZER SITE
Proj. #: DS20239
Operators: John D.
Point 4 of 0

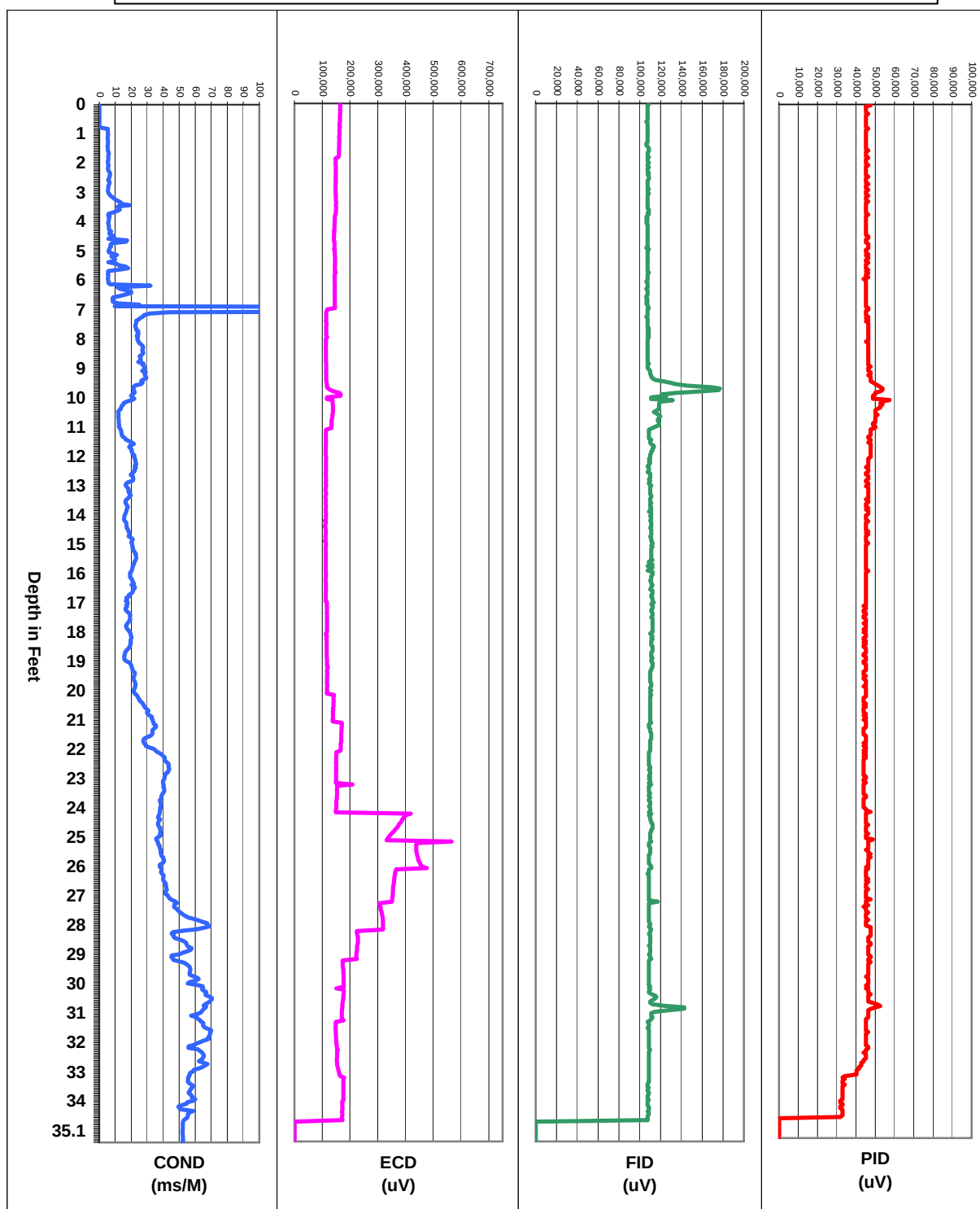
ZEBRA EC/MIP Summary Log, Point MIP5 Brooklyn NY



for: ROUX
by: Zebra Environmental
30 No. Prospect Avenue
Lynbrook, NY 11563
(516) 596-6300

Date: 3/23/2012
Proj. Name: PFIZER SITE
Proj. #: DS20239
Operators: John D.
Point 5 of 0

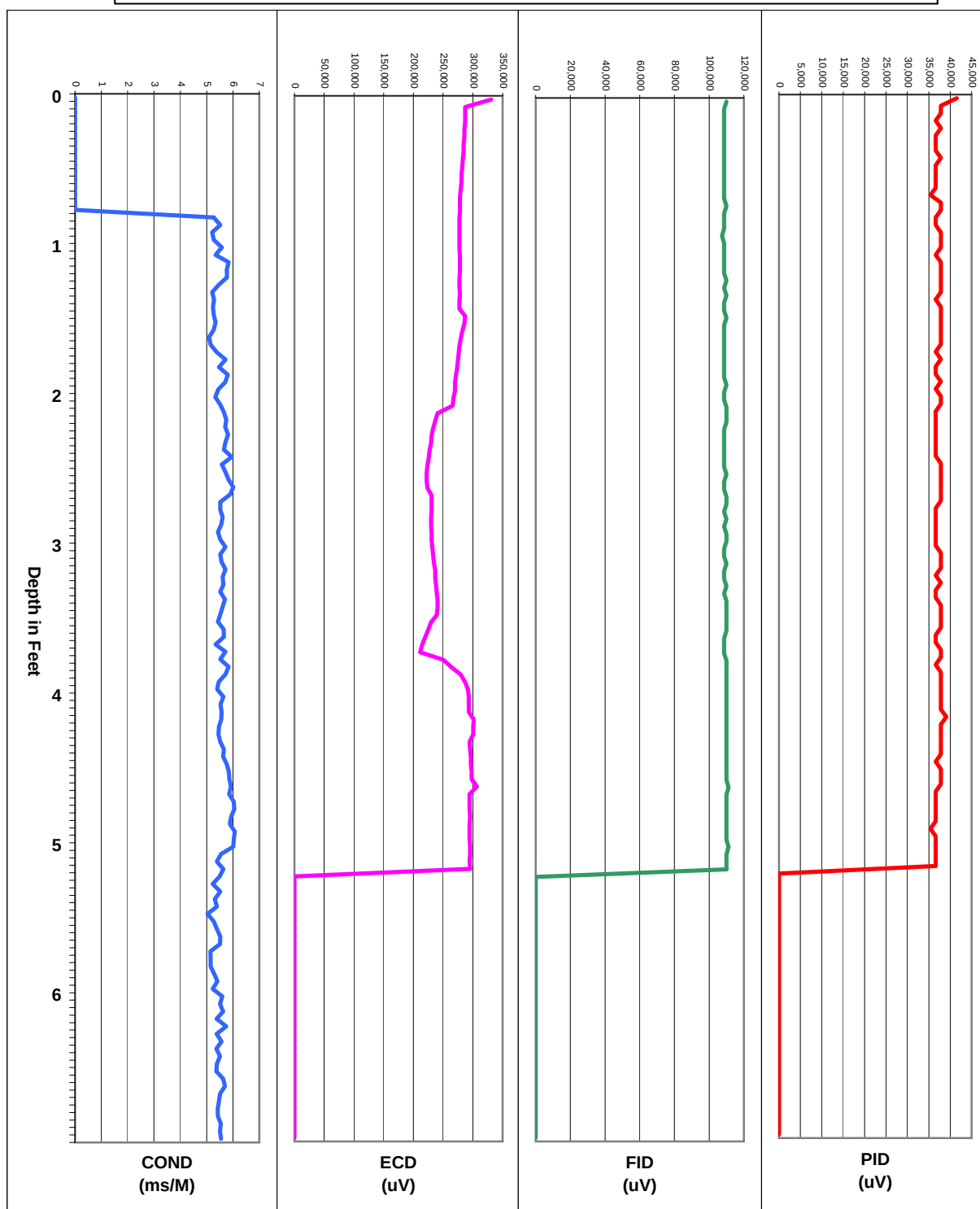
ZEBRA EC/MIP Summary Log, Point MIP6 Brooklyn NY



for: ROUX
by: Zebra Environmental
30 No. Prospect Avenue
Lynbrook, NY 11563
(516) 596-6300

Date: 3/15/2012
Proj. Name: PFIZER SITE
Proj. #: DS20239
Operators: John D.
Point 6 of 0

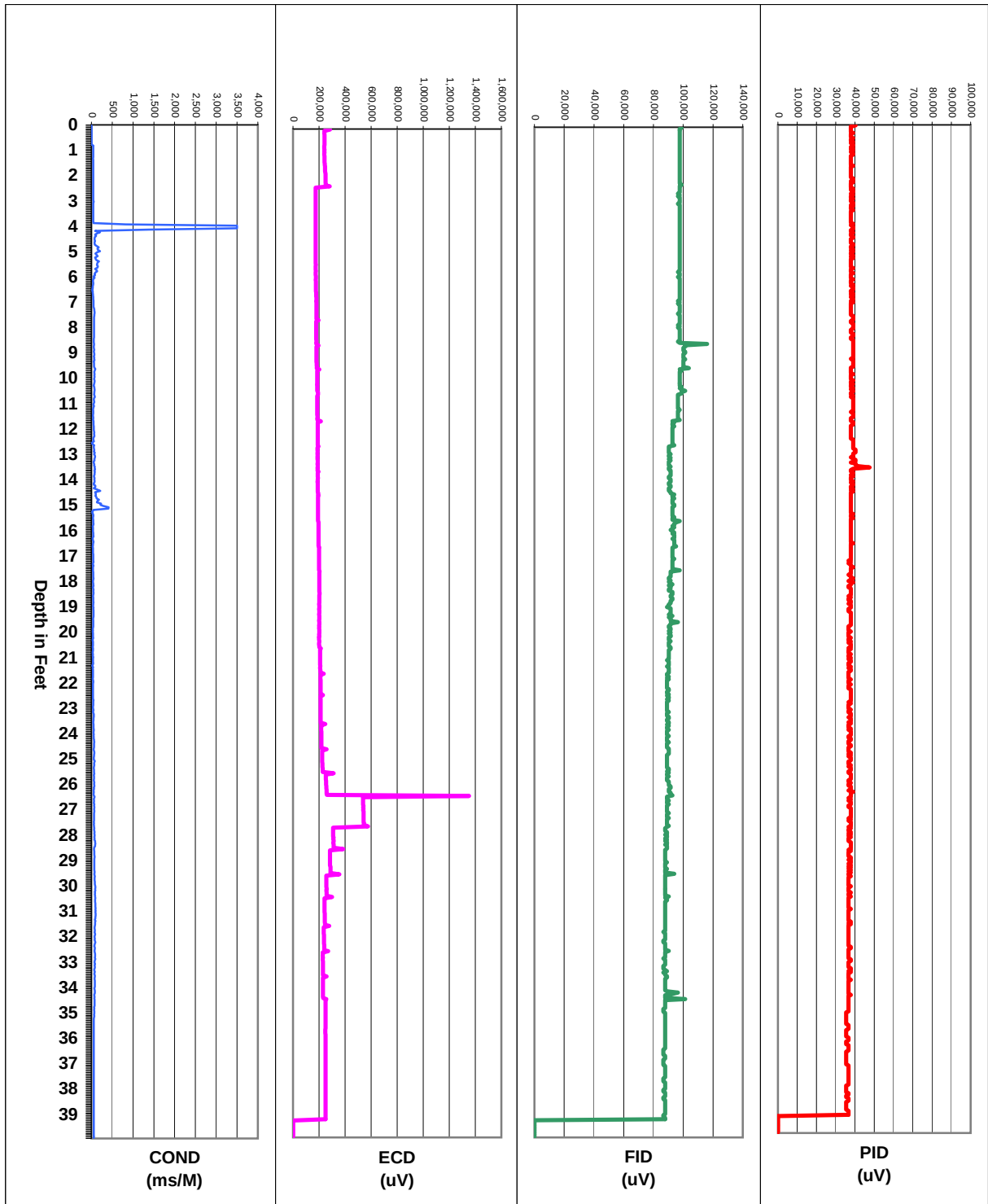
ZEBRA EC/MIP Summary Log, Point MIP7 Brooklyn NY



for: ROUX
by: Zebra Environmental
30 No. Prospect Avenue
Lynbrook, NY 11563
(516) 596-6300

Date: 3/15/2012
Proj. Name: PFIZER SITE
Proj. #: DS20239
Operators: John D.
Point 7 of 0

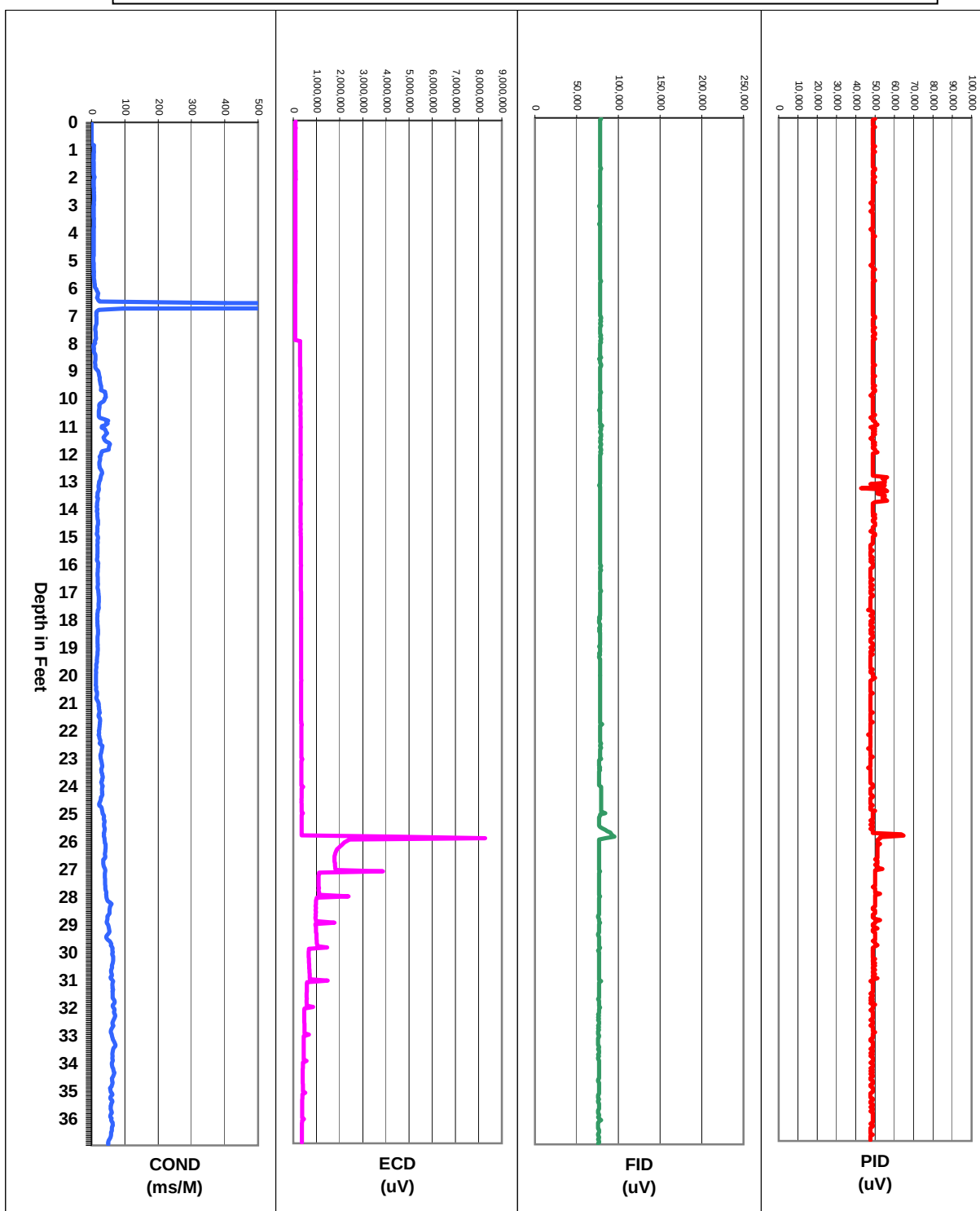
ZEBRA EC/MIP Summary Log, Point MIP7A Brooklyn NY



for: ROUX
by: Zebra Environmental
30 No. Prospect Avenue
Lynbrook, NY 11563
(516) 596-6300

Date: 3/15/2012
Proj. Name: PFIZER SITE
Proj. #: DS20239
Operators: John D.
Point 7 of 0

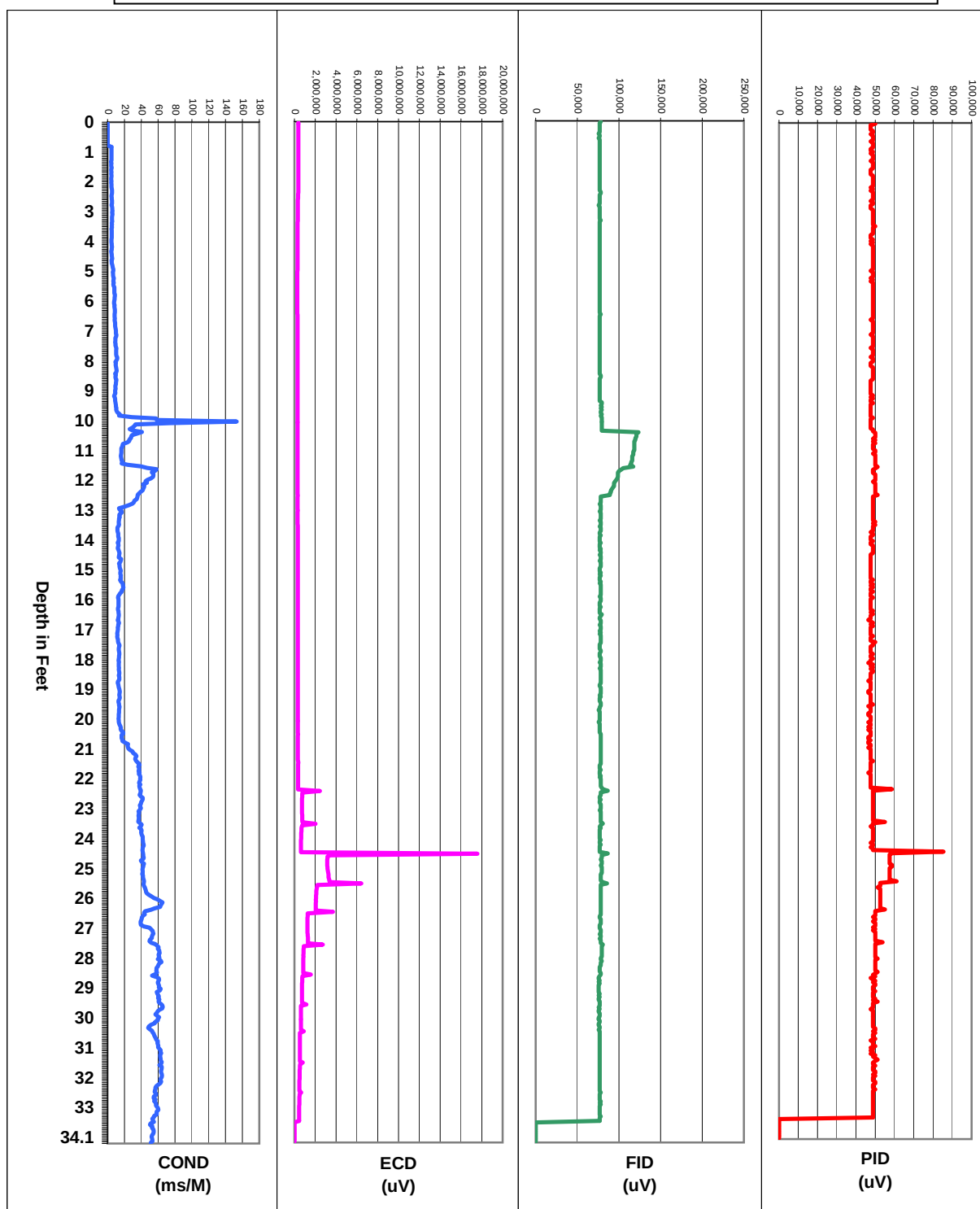
ZEBRA EC/MIP Summary Log, Point MIP8 Brooklyn NY



for: ROUX
by: Zebra Environmental
30 No. Prospect Avenue
Lynbrook, NY 11563
(516) 596-6300

Date: 3/23/2012
Proj. Name: PFIZER SITE
Proj. #: DS20239
Operators: John D.
Point 8 of 0

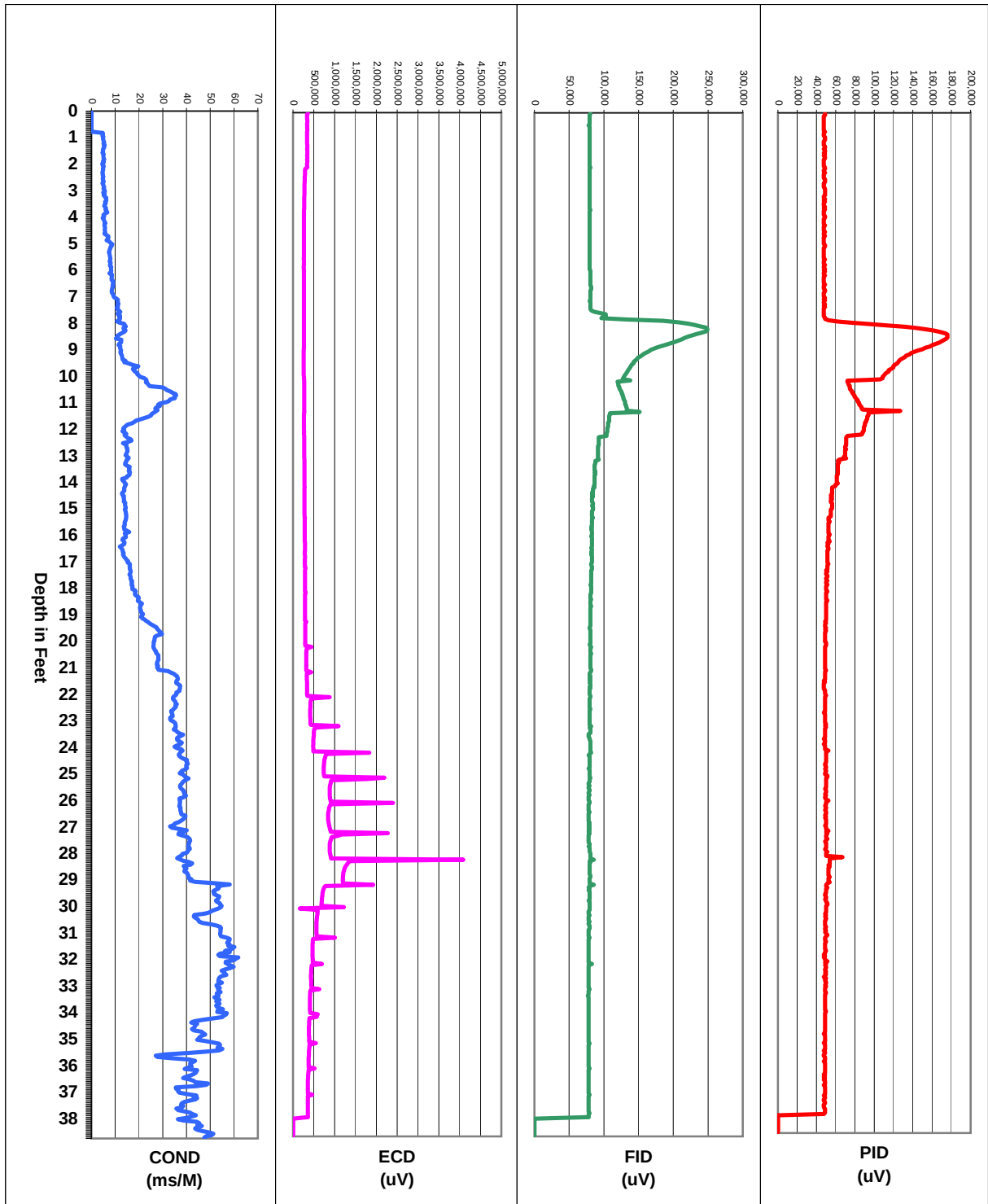
ZEBRA EC/MIP Summary Log, Point MIP9 Brooklyn NY



for: ROUX
by: Zebra Environmental
30 No. Prospect Avenue
Lynbrook, NY 11563
(516) 596-6300

Date: 3/23/2012
Proj. Name: PFIZER SITE
Proj. #: DS20239
Operators: John D.
Point 9 of 0

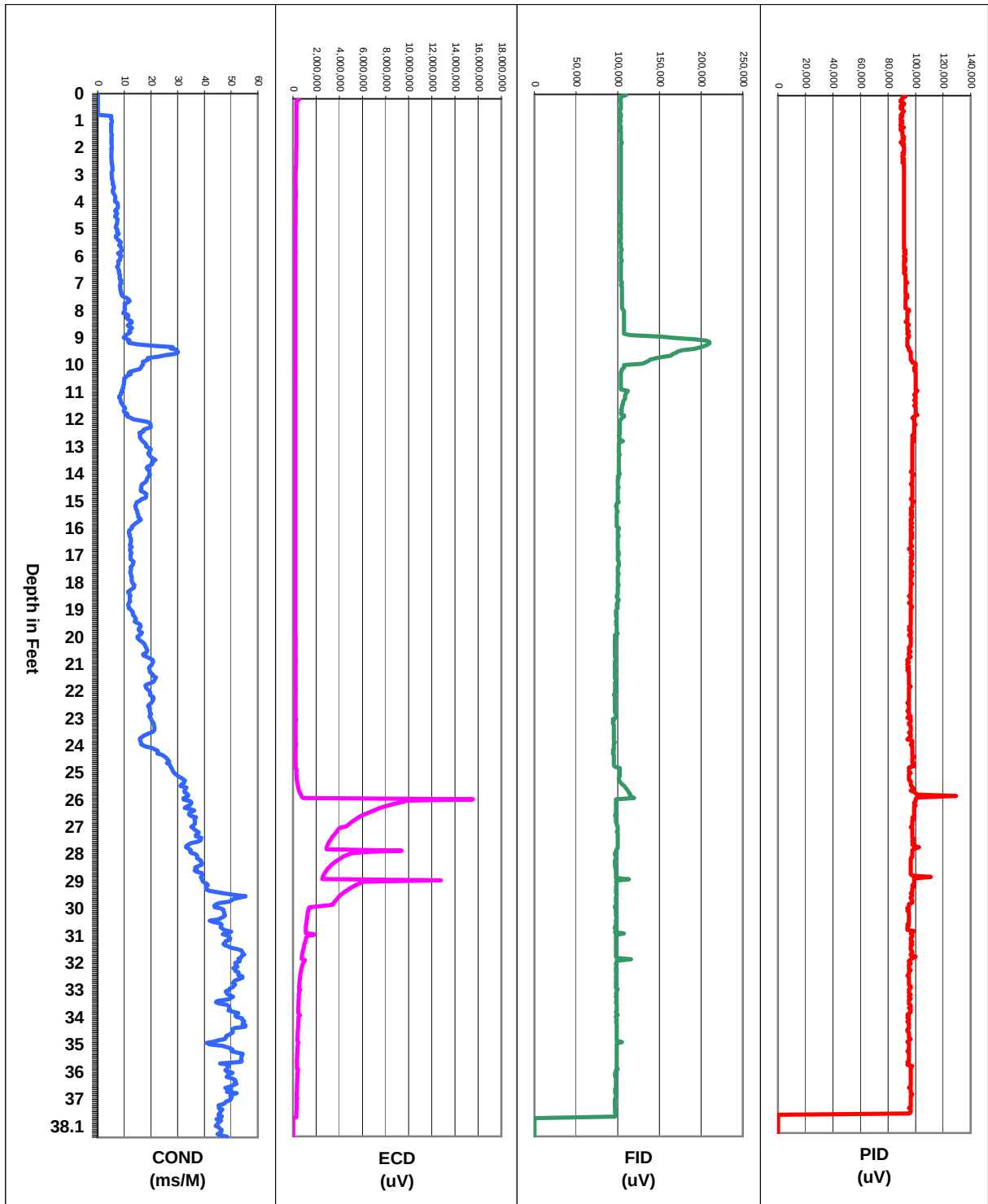
ZEBRA EC/MIP Summary Log, Point MIP10 Brooklyn NY



for: ROUX
by: Zebra Environmental
30 No. Prospect Avenue
Lynbrook, NY 11563
(516) 596-6300

Date: 3/23/2012
Proj. Name: PFIZER SITE
Proj. #: DS20239
Operators: John D.
Point 10 of 0

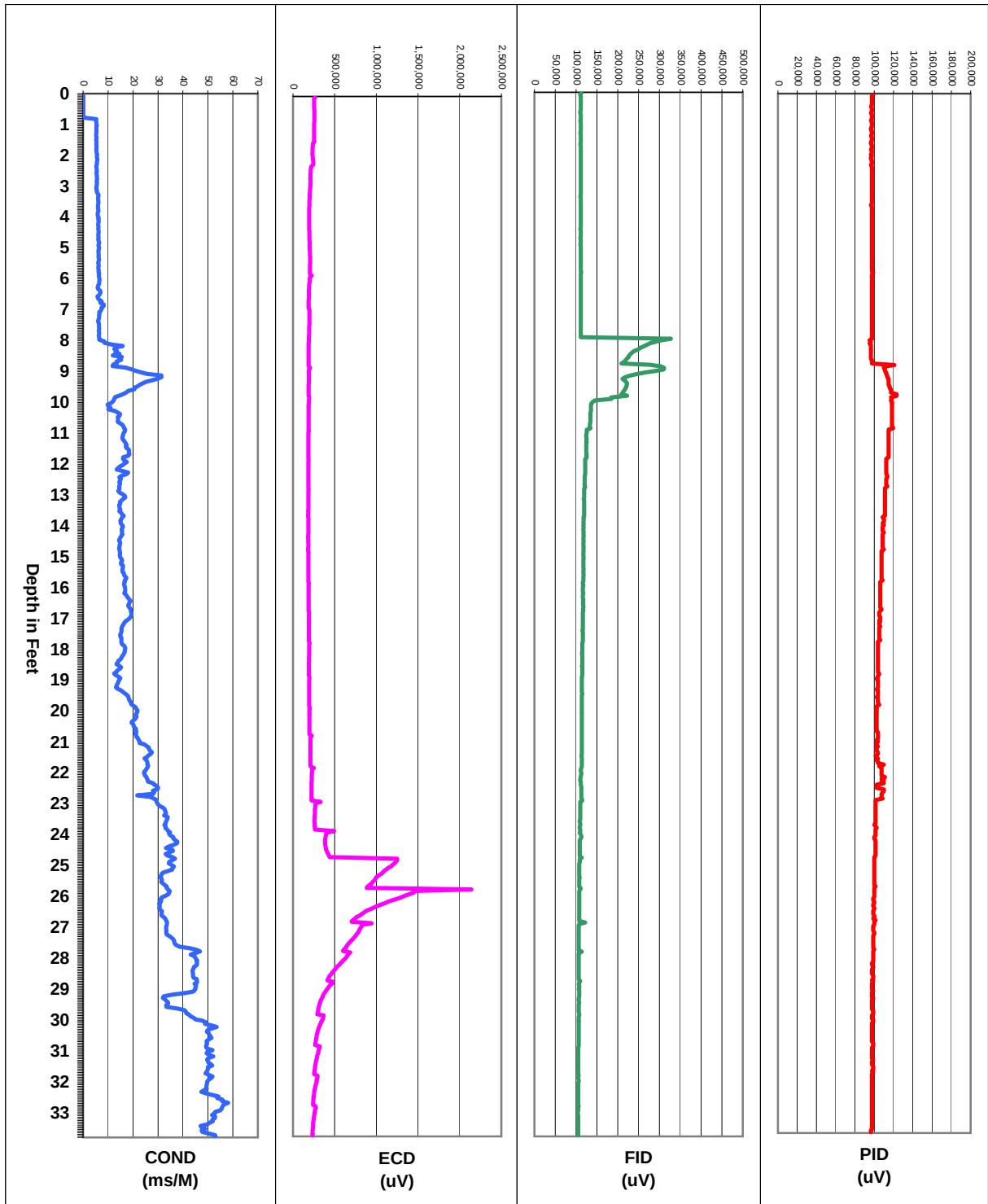
ZEBRA EC/MIP Summary Log, Point MIP11 Brooklyn NY



for: ROUX
by: Zebra Environmental
30 No. Prospect Avenue
Lynbrook, NY 11563
(516) 596-6300

Date: 3/13/2012
Proj. Name: PFIZER SITE
Proj. #: DS20239
Operators: John D.
Point 11 of 0

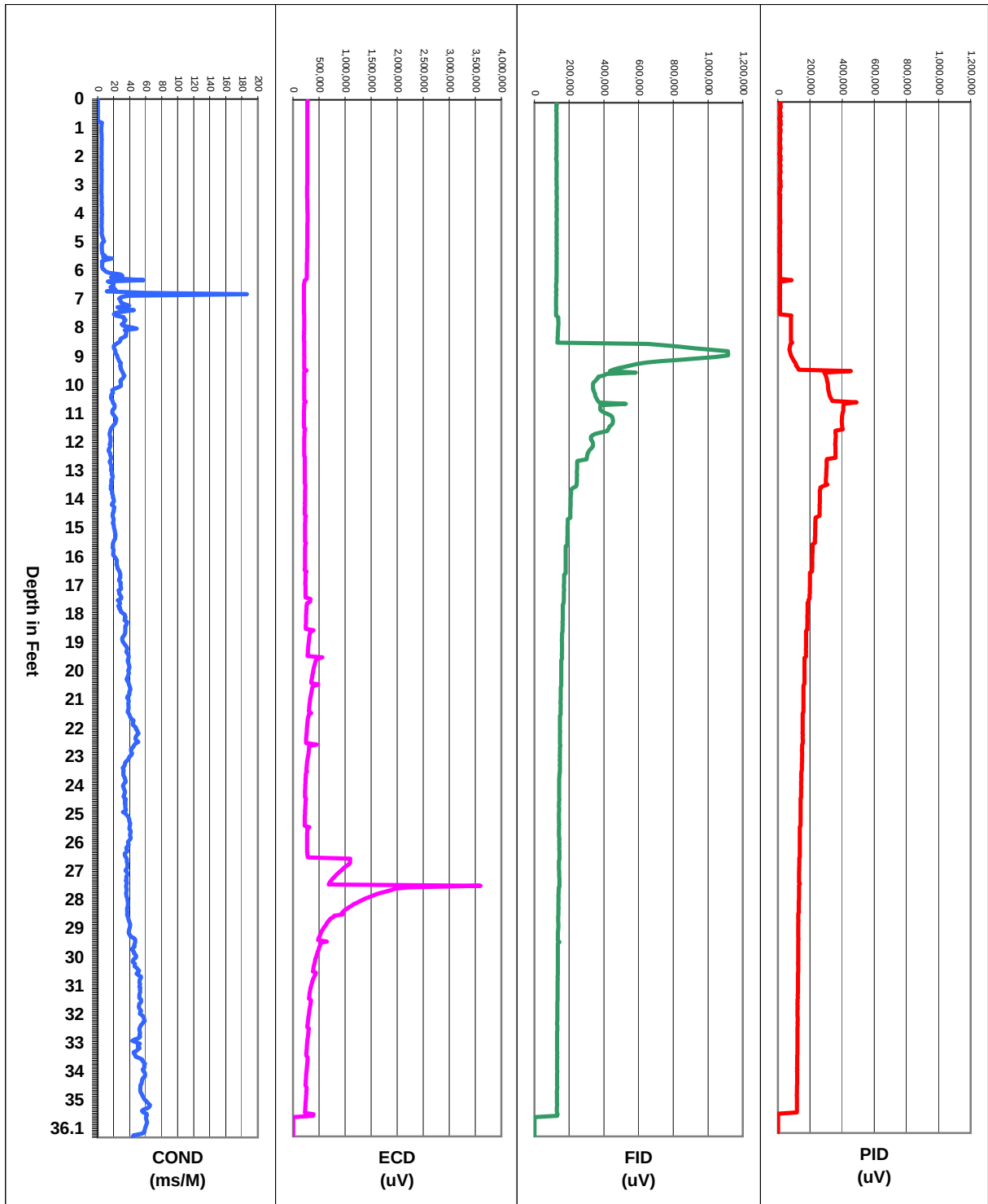
ZEBRA EC/MIP Summary Log, Point MIP12 Brooklyn NY



for: ROUX
by: Zebra Environmental
30 No. Prospect Avenue
Lynbrook, NY 11563
(516) 596-6300

Date: 3/13/2012
Proj. Name: PFIZER SITE
Proj. #: DS20239
Operators: John D.
Point 12 of 0

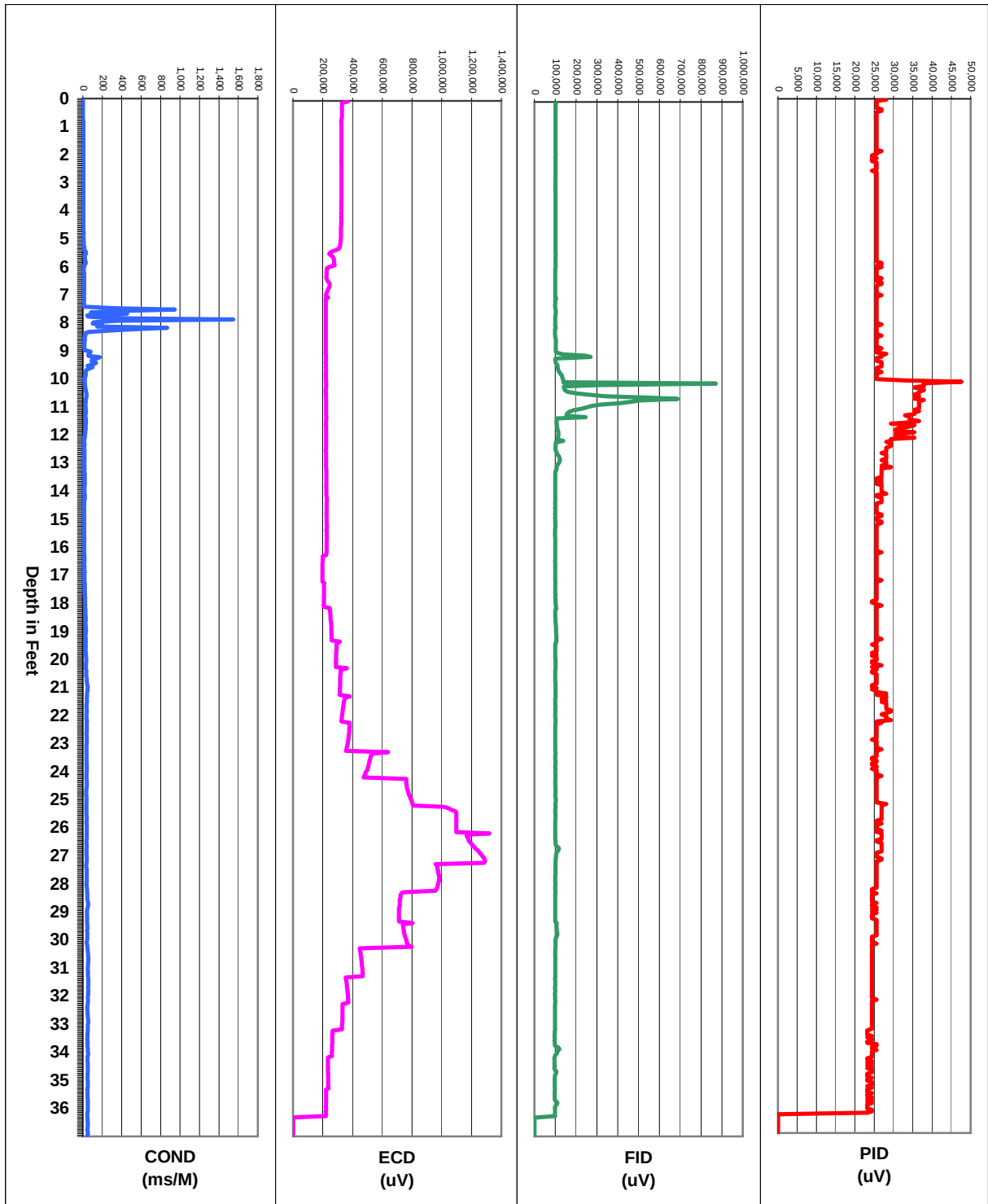
ZEBRA EC/MIP Summary Log, Point MIP13 Brooklyn NY



for: ROUX
by: Zebra Environmental
30 No. Prospect Avenue
Lynbrook, NY 11563
(516) 596-6300

Date: 3/13/2012
Proj. Name: PFIZER SITE
Proj. #: DS20239
Operators: John D.
Point 13 of 0

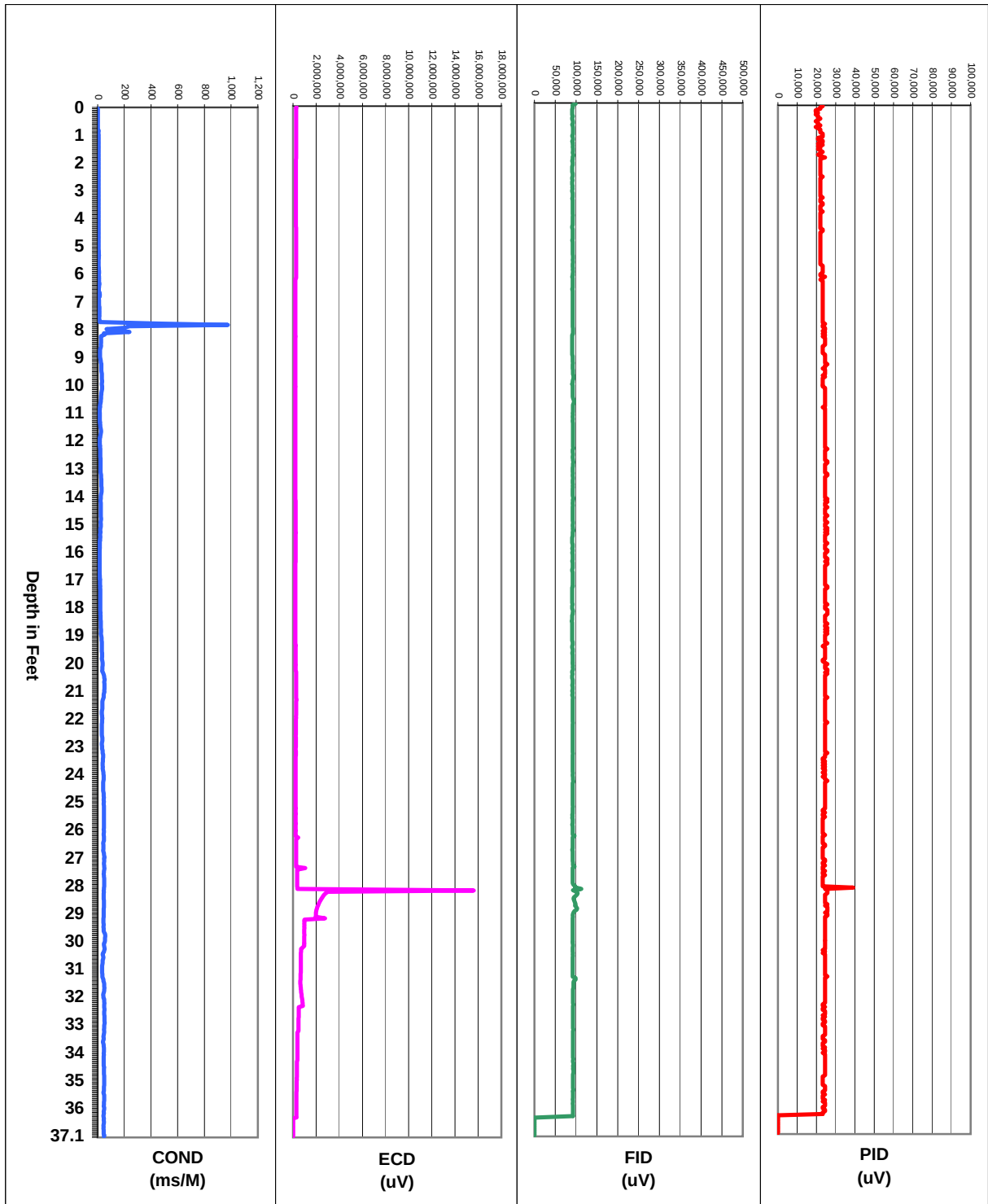
ZEBRA EC/MIP Summary Log, Point MIP14 Brooklyn NY



for: ROUX
by: Zebra Environmental
30 No. Prospect Avenue
Lynbrook, NY 11563
(516) 596-6300

Date: 3/14/2012
Proj. Name: PFIZER SITE
Proj. #: DS20239
Operators: John D.
Point 14 of 0

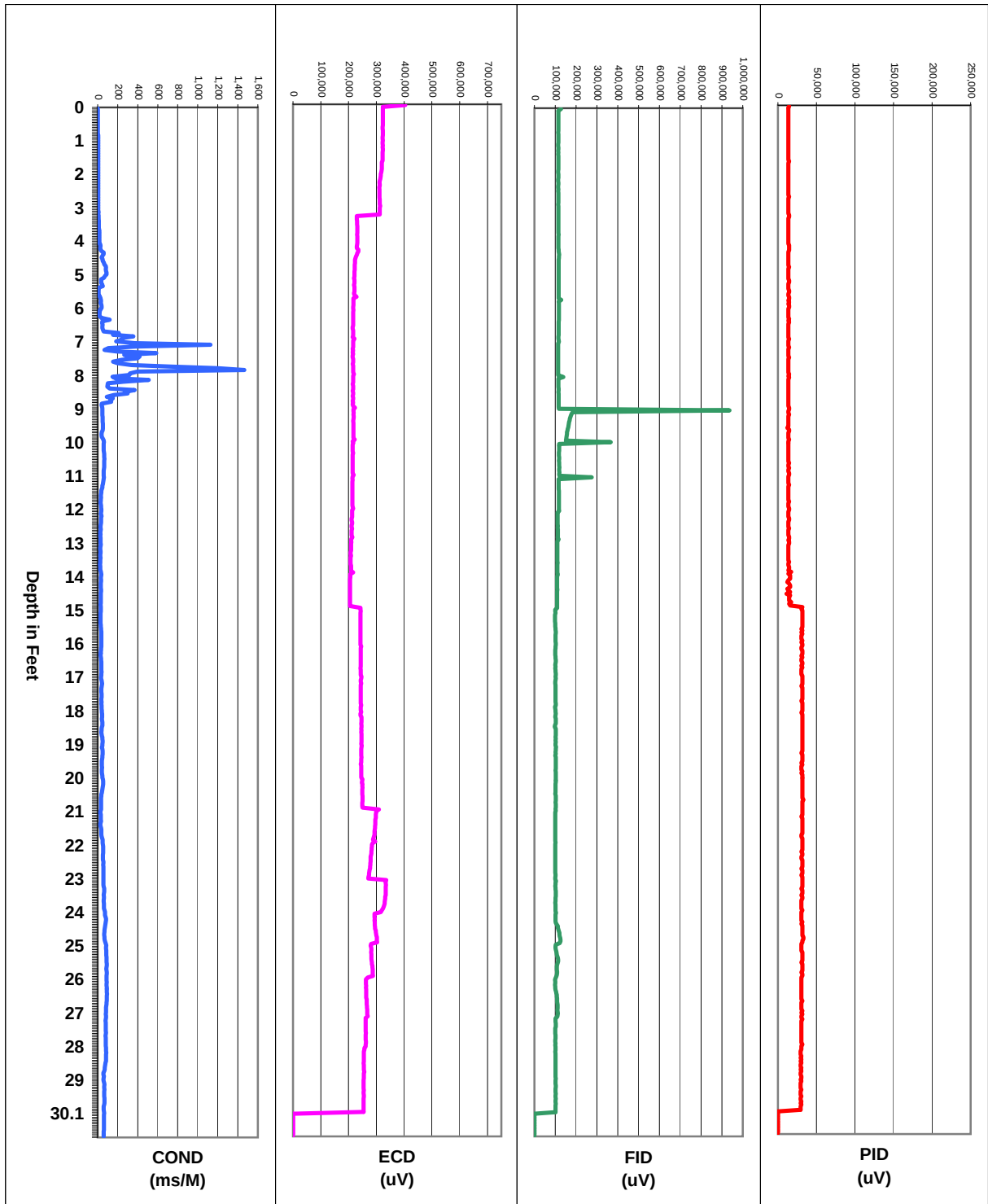
ZEBRA EC/MIP Summary Log, Point MIP15 Brooklyn NY



for: ROUX
by: Zebra Environmental
30 No. Prospect Avenue
Lynbrook, NY 11563
(516) 596-6300

Date: 3/14/2012
Proj. Name: PFIZER SITE
Proj. #: DS20239
Operators: John D.
Point 15 of 0

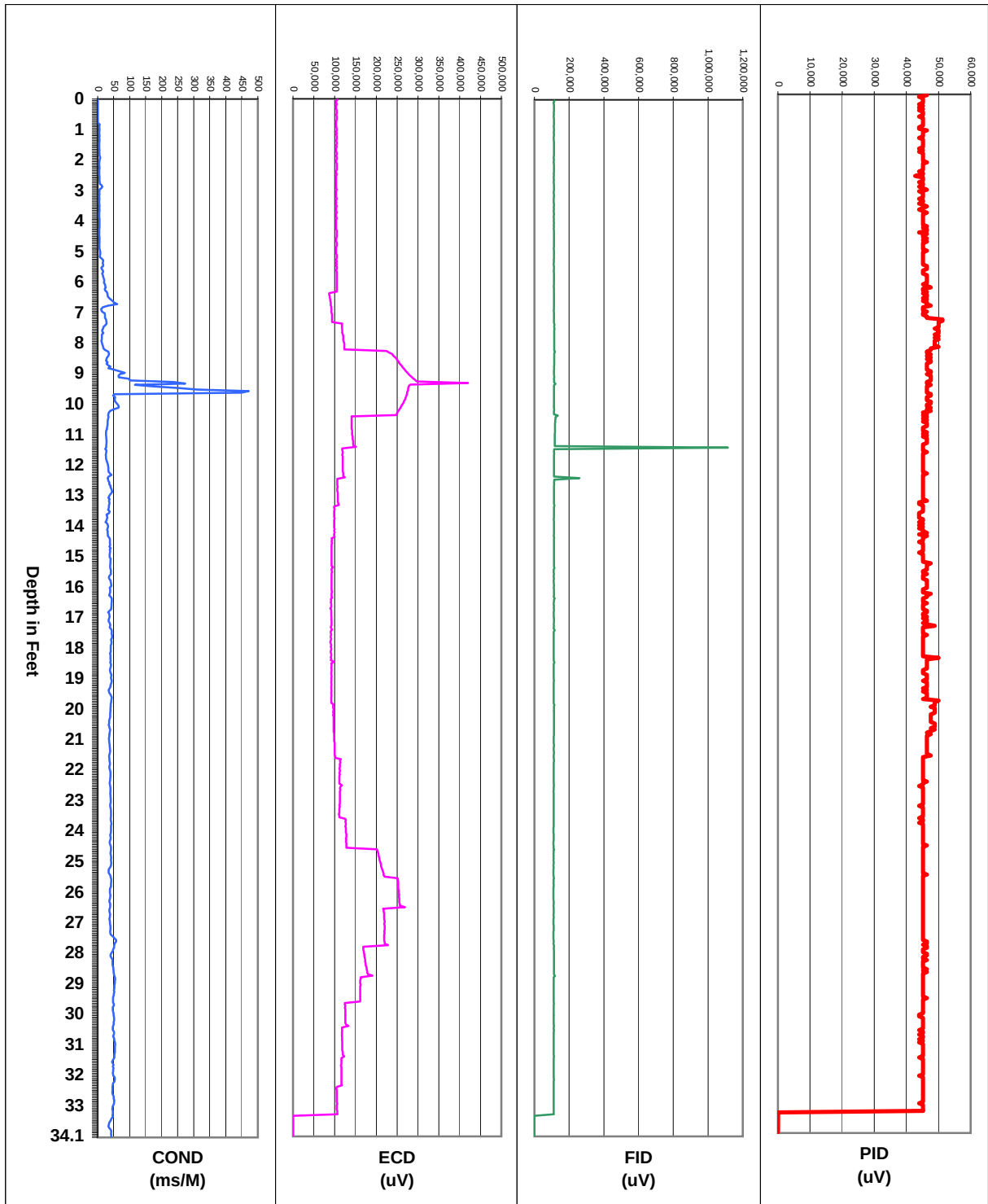
ZEBRA EC/MIP Summary Log, Point MIP16 Brooklyn NY



for: ROUX
by: Zebra Environmental
30 No. Prospect Avenue
Lynbrook, NY 11563
(516) 596-6300

Date: 3/14/2012
Proj. Name: PFIZER SITE
Proj. #: DS20239
Operators: John D.
Point 16 of 0

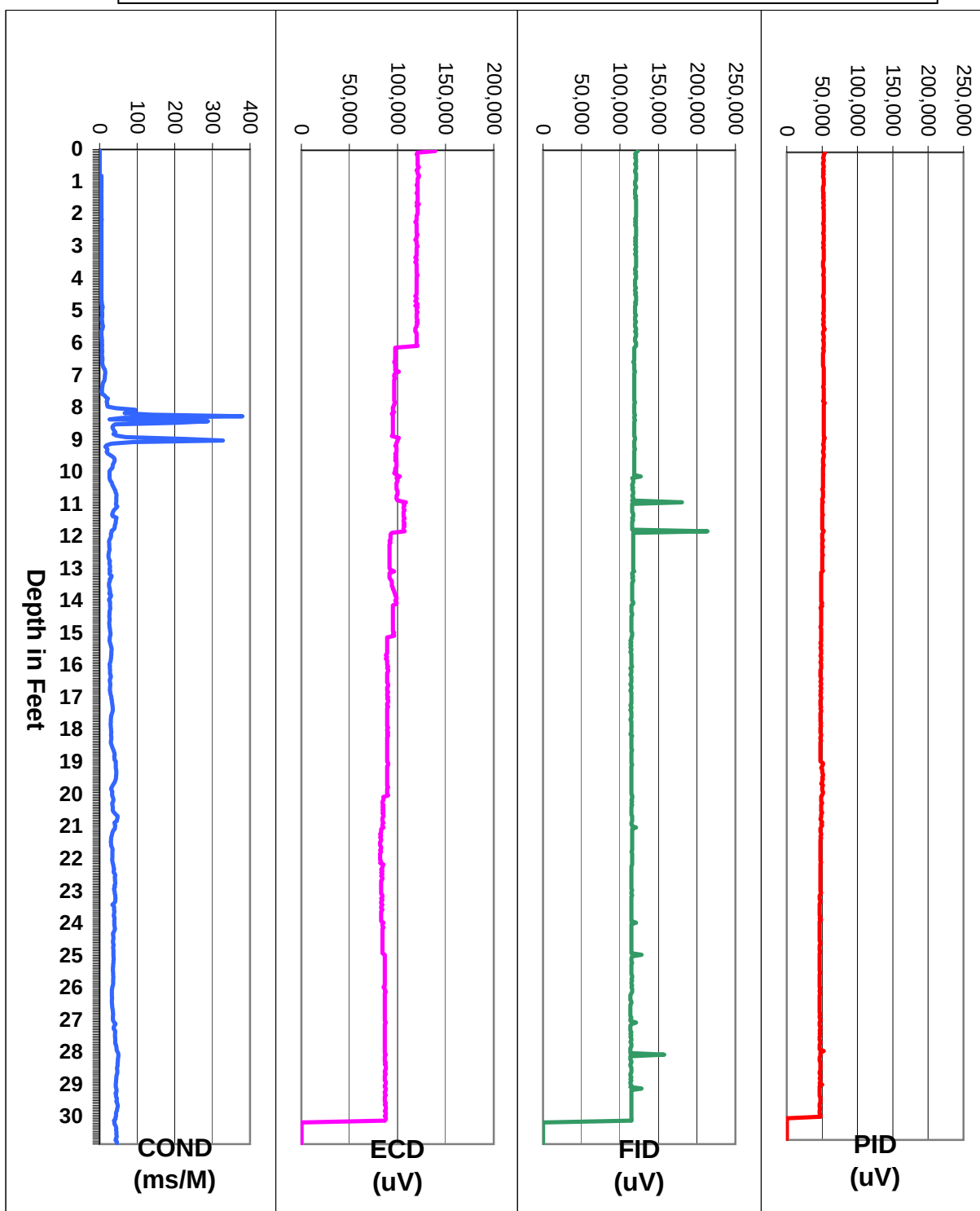
ZEBRA EC/MIP Summary Log, Point MIP17 Brooklyn NY



for: ROUX
by: Zebra Environmental
30 No. Prospect Avenue
Lynbrook, NY 11563
(516) 596-6300

Date: 3/15/2012
Proj. Name: PFIZER SITE
Proj. #: DS20239
Operators: John D.
Point 17 of 0

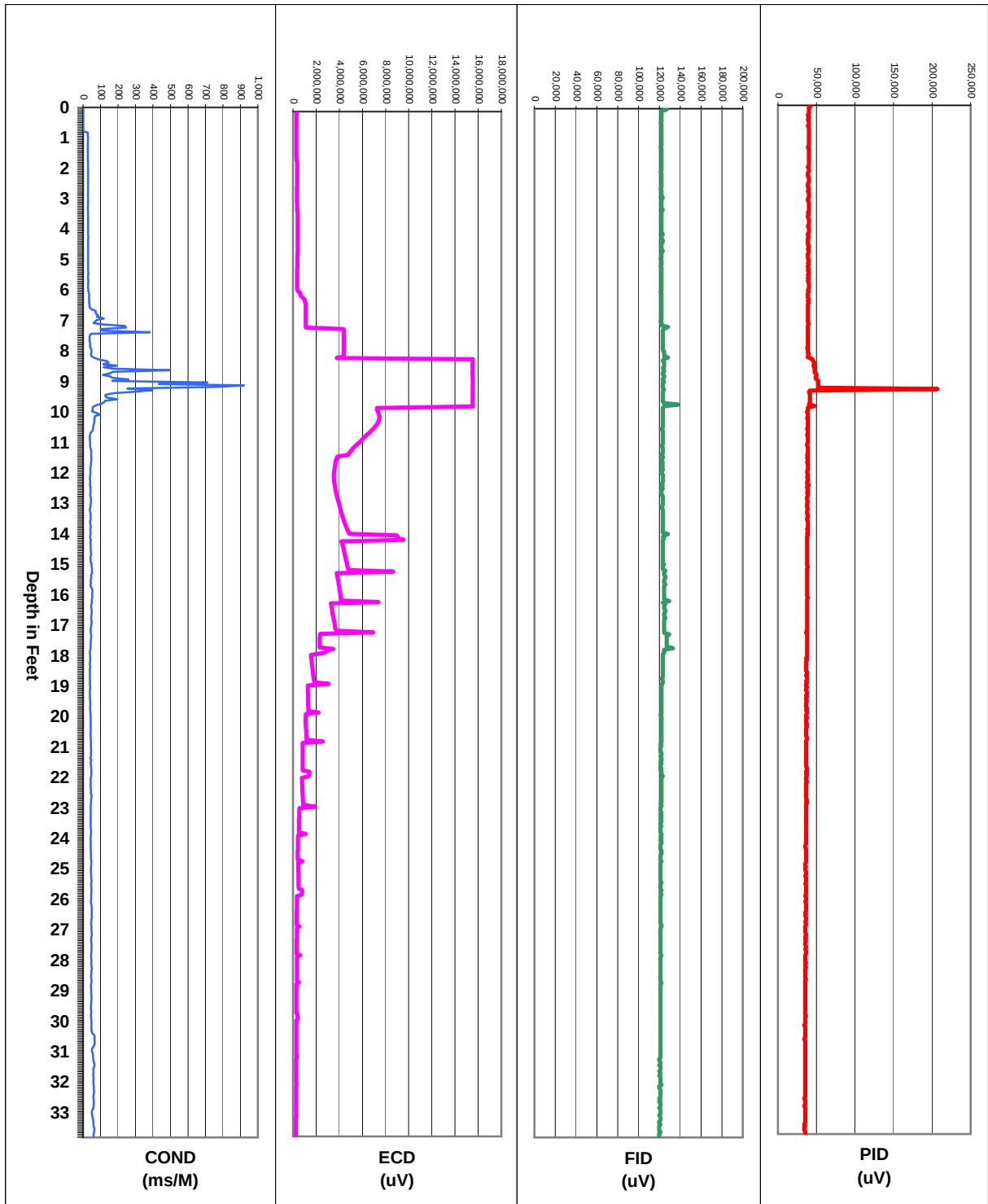
ZEBRA EC/MIP Summary Log, Point MIP18 Brooklyn NY



for: ROUX
by: Zebra Environmental
30 No. Prospect Avenue
Lynbrook, NY 11563
(516) 596-6300

Date: 3/15/2012
Proj. Name: PFIZER SITE
Proj. #: DS20239
Operators: John D.
Point 18 of 0

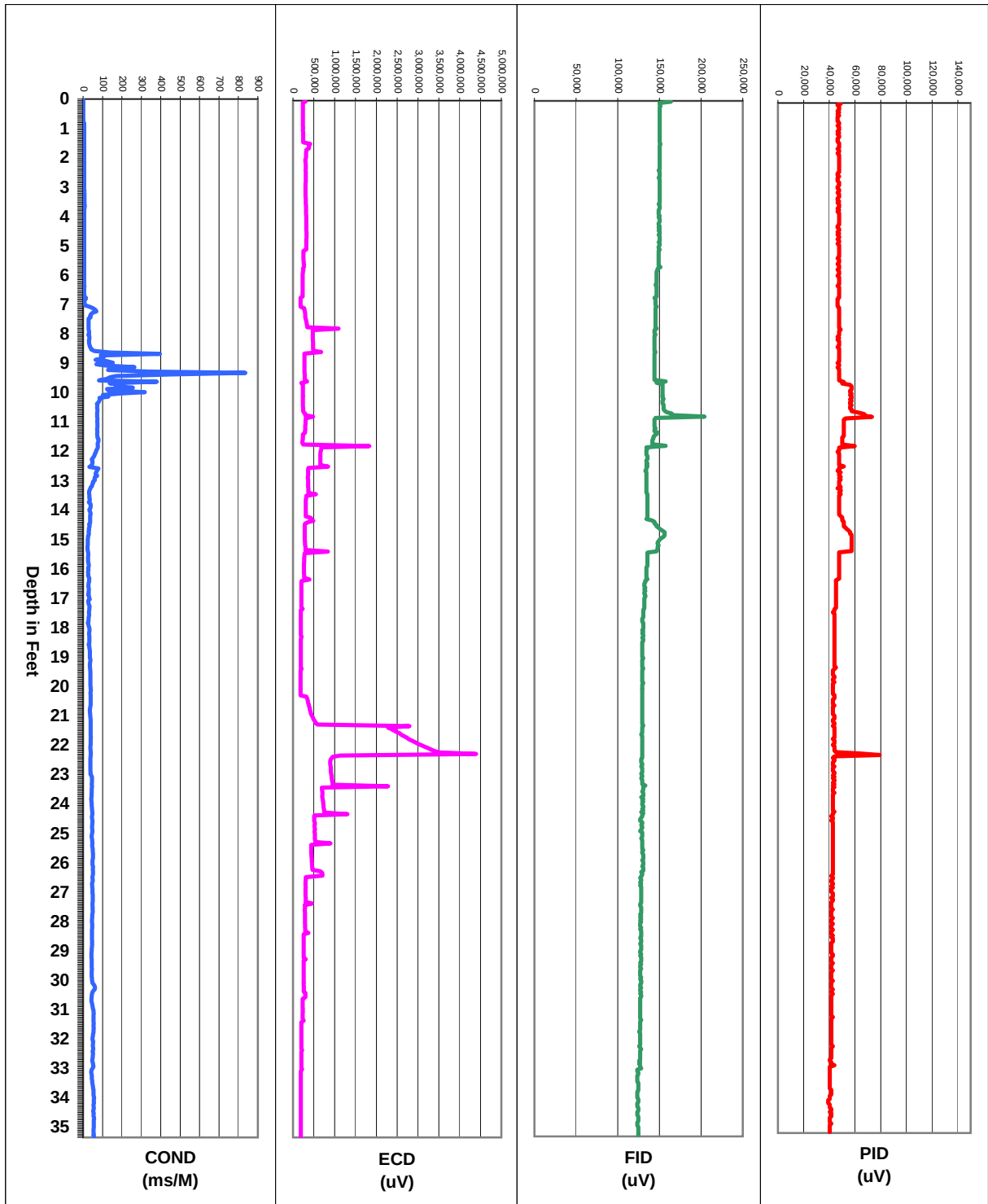
ZEBRA EC/MIP Summary Log, Point MIP19 Brooklyn NY



for: ROUX
 by: Zebra Environmental
 30 No. Prospect Avenue
 Lynbrook, NY 11563
 (516) 596-6300

Date: 3/19/2012
 Proj. Name: PFIZER SITE
 Proj. #: DS20239
 Operators: John D.
 Point 19 of 0

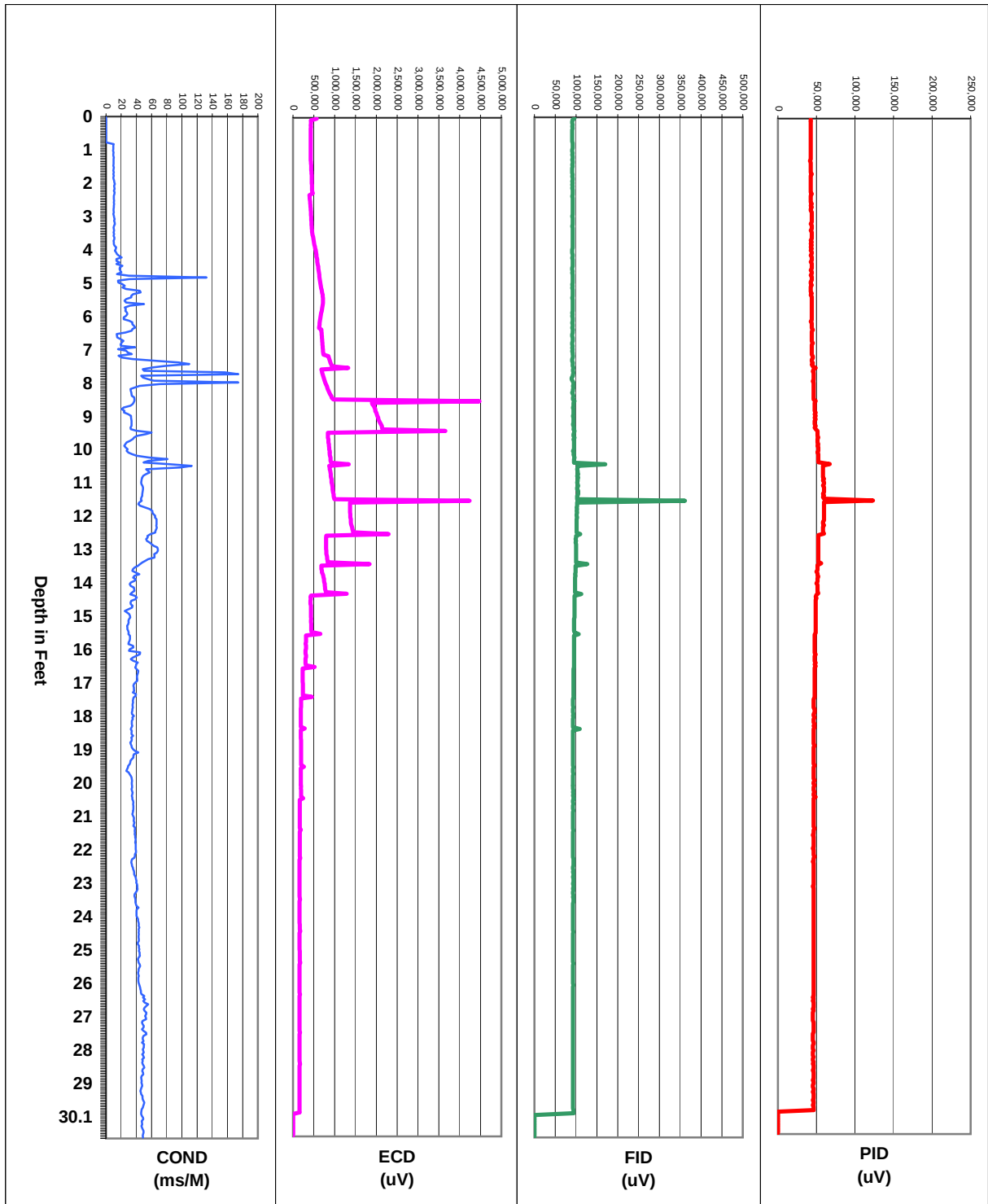
ZEBRA EC/MIP Summary Log, Point MIP20 Brooklyn NY



for: ROUX
by: Zebra Environmental
30 No. Prospect Avenue
Lynbrook, NY 11563
(516) 596-6300

Date: 3/19/2012
Proj. Name: PFIZER SITE
Proj. #: DS20239
Operators: John D.
Point 20 of 0

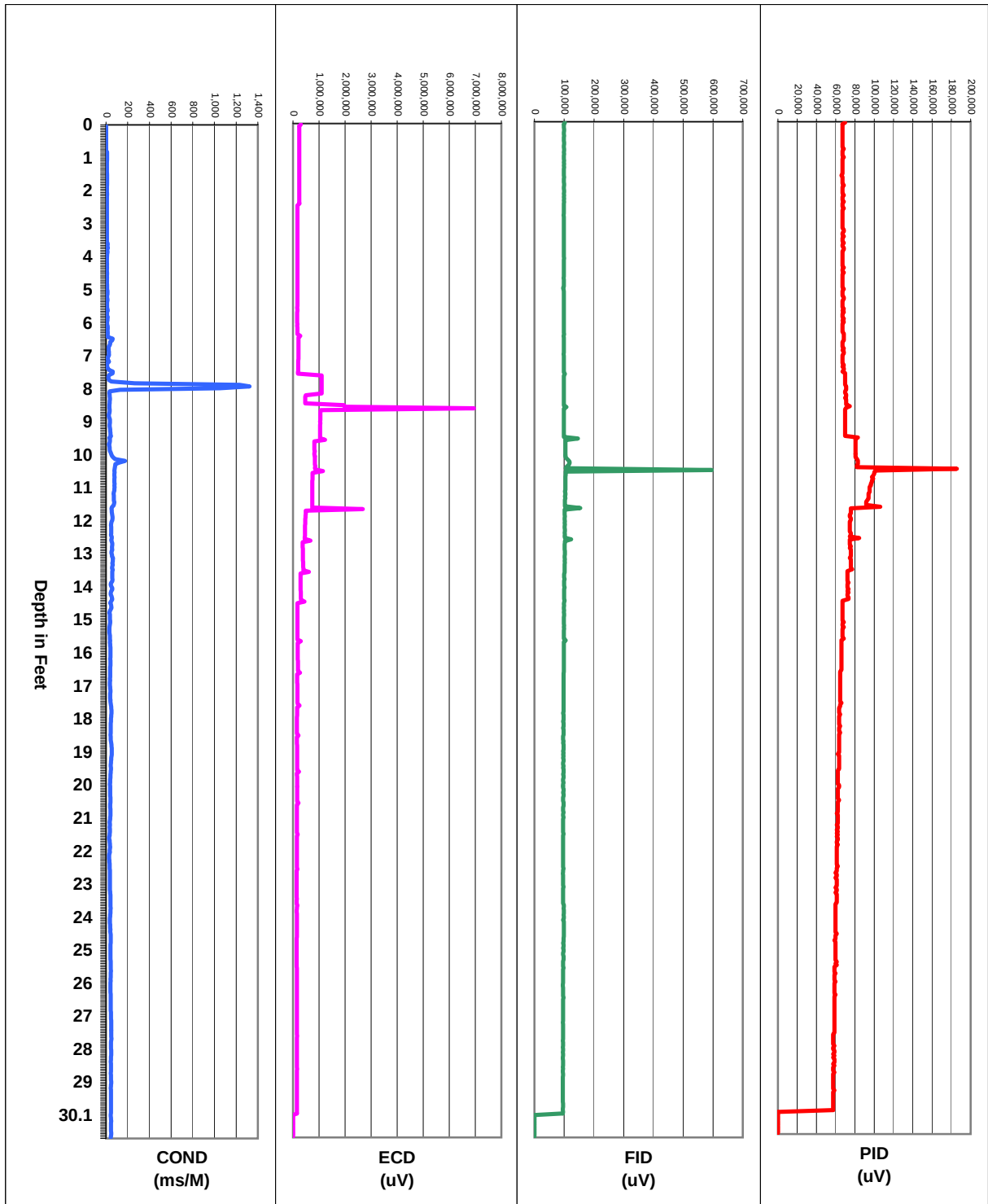
ZEBRA EC/MIP Summary Log, Point MIP21 Brooklyn NY



for: ROUX
 by: Zebra Environmental
 30 No. Prospect Avenue
 Lynbrook, NY 11563
 (516) 596-6300

Date: 3/21/2012
 Proj. Name: PFIZER SITE
 Proj. #: DS20239
 Operators: John D.
 Point 21 of 0

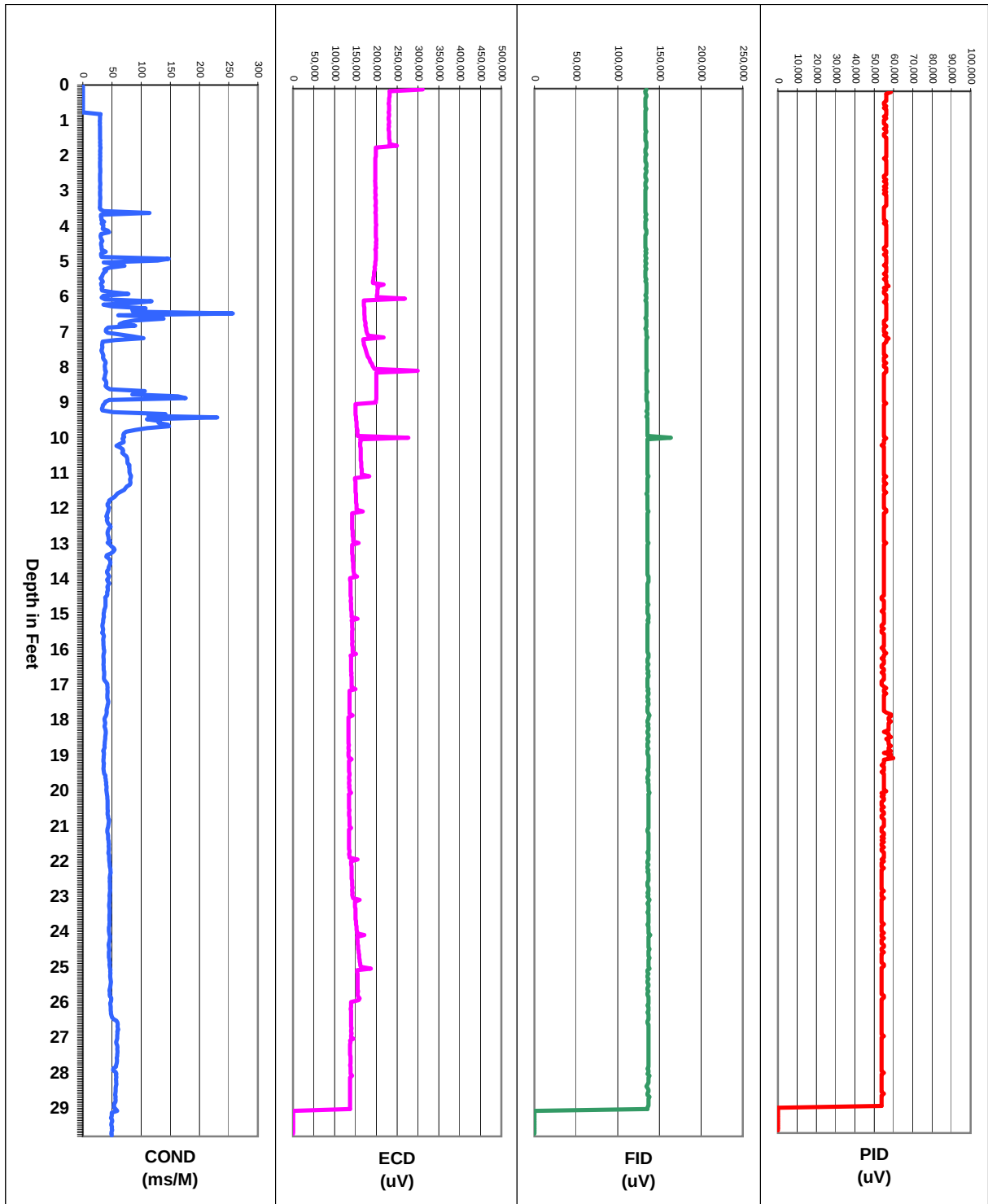
ZEBRA EC/MIP Summary Log, Point MIP22 Brooklyn NY



for: ROUX
 by: Zebra Environmental
 30 No. Prospect Avenue
 Lynbrook, NY 11563
 (516) 596-6300

Date: 3/21/2012
 Proj. Name: PFIZER SITE
 Proj. #: DS20239
 Operators: John D.
 Point 22 of 0

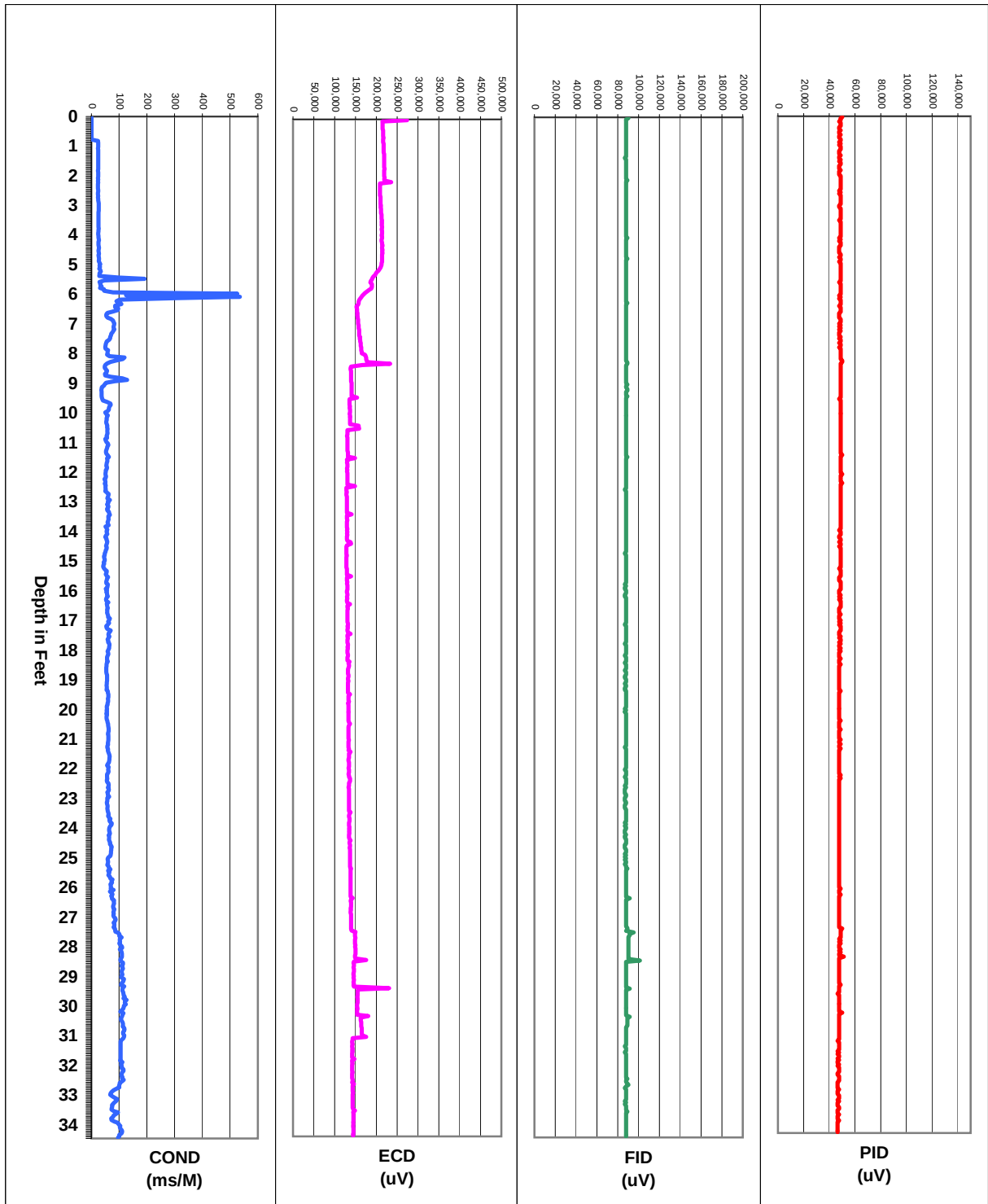
ZEBRA EC/MIP Summary Log, Point MIP23 Brooklyn NY



for: ROUX
 by: Zebra Environmental
 30 No. Prospect Avenue
 Lynbrook, NY 11563
 (516) 596-6300

Date: 3/16/2012
 Proj. Name: PFIZER SITE
 Proj. #: DS20239
 Operators: John D.
 Point 23 of 0

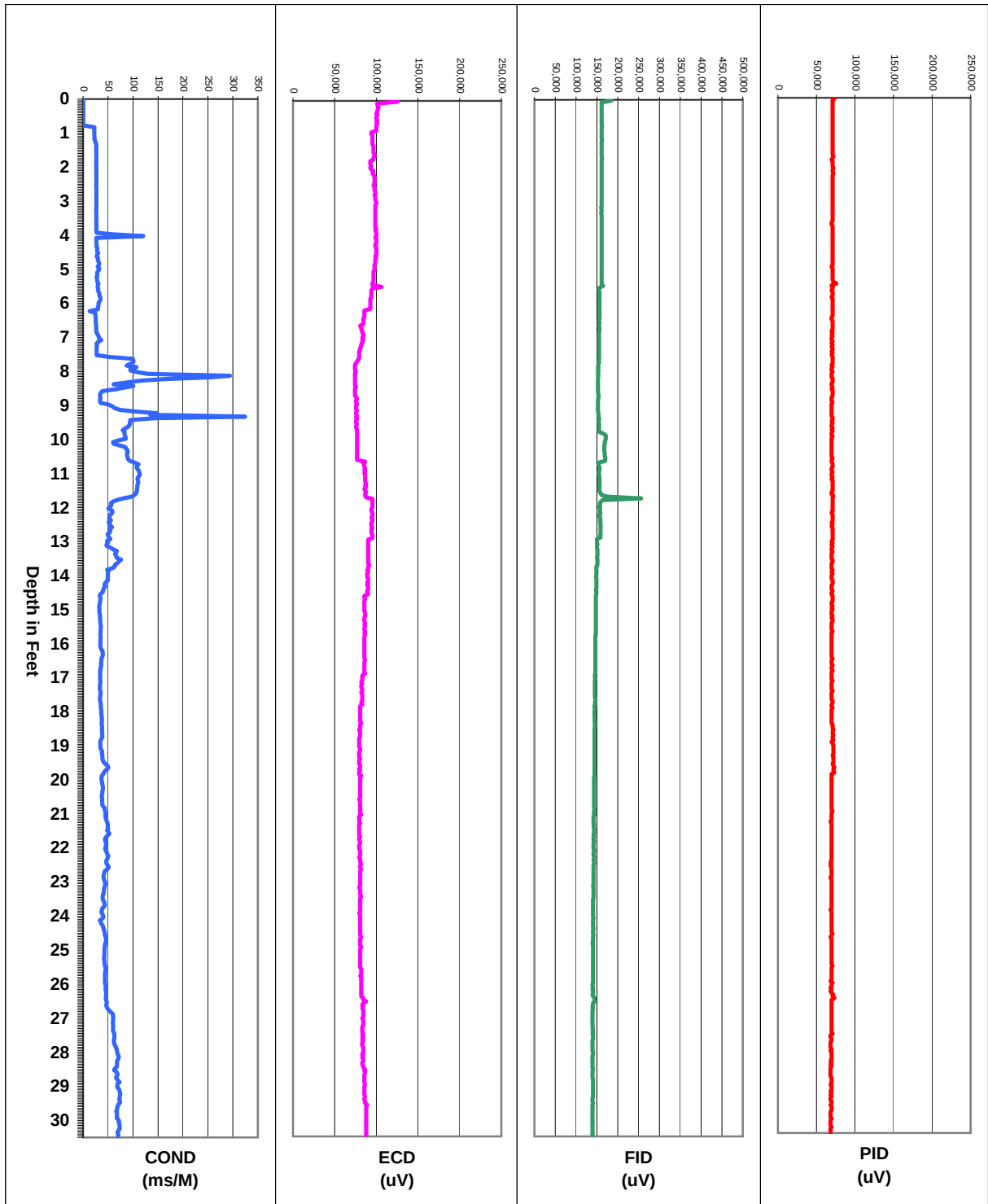
ZEBRA EC/MIP Summary Log, Point MIP25 Brooklyn NY



for: ROUX
by: Zebra Environmental
30 No. Prospect Avenue
Lynbrook, NY 11563
(516) 596-6300

Date: 3/21/2012
Proj. Name: PFIZER SITE
Proj. #: DS20239
Operators: John D.
Point 25 of 0

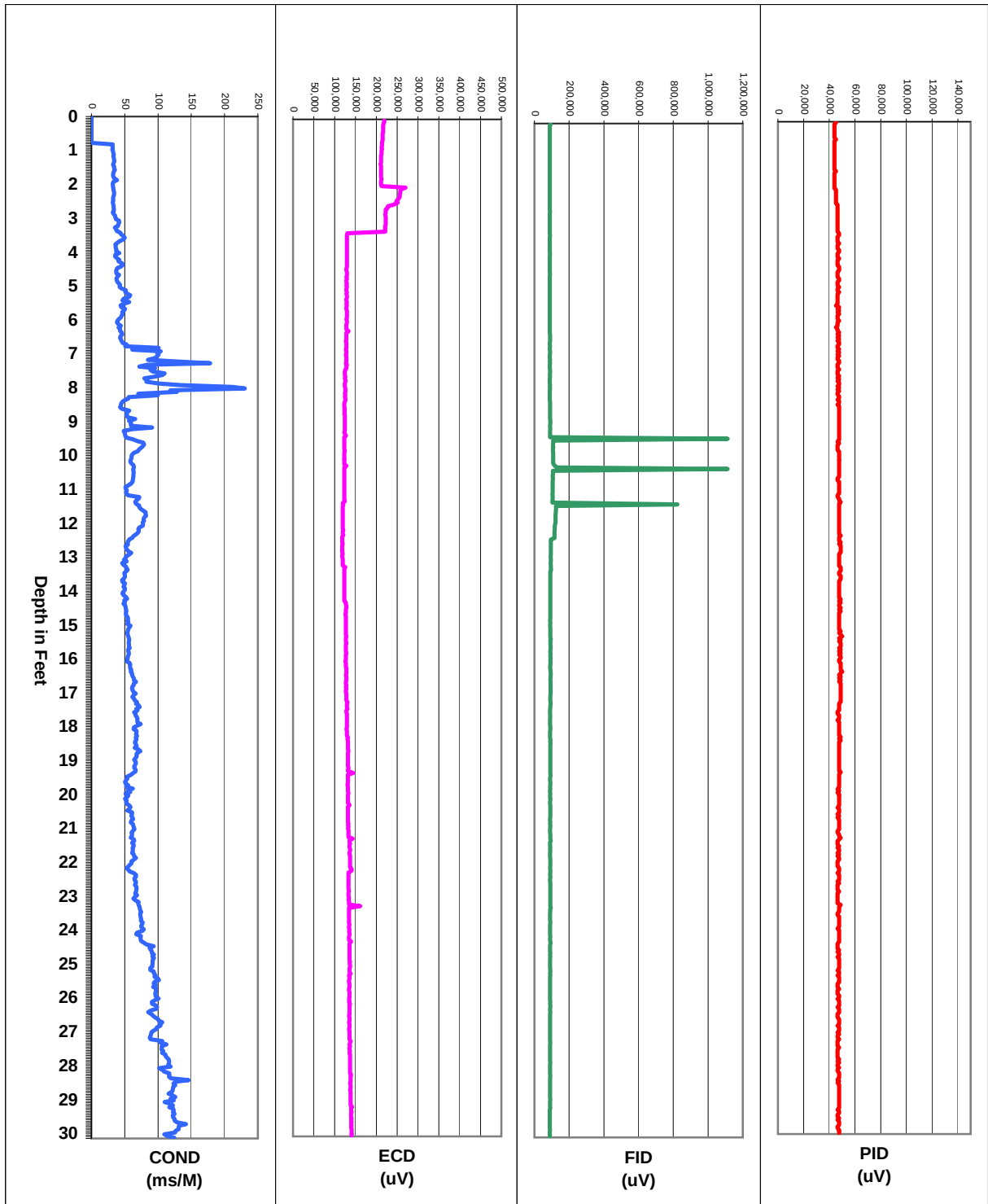
ZEBRA EC/MIP Summary Log, Point MIP26 Brooklyn NY



for: ROUX
 by: Zebra Environmental
 30 No. Prospect Avenue
 Lynbrook, NY 11563
 (516) 596-6300

Date: 3/16/2012
 Proj. Name: PFIZER SITE
 Proj. #: DS20239
 Operators: John D.
 Point 26 of 0

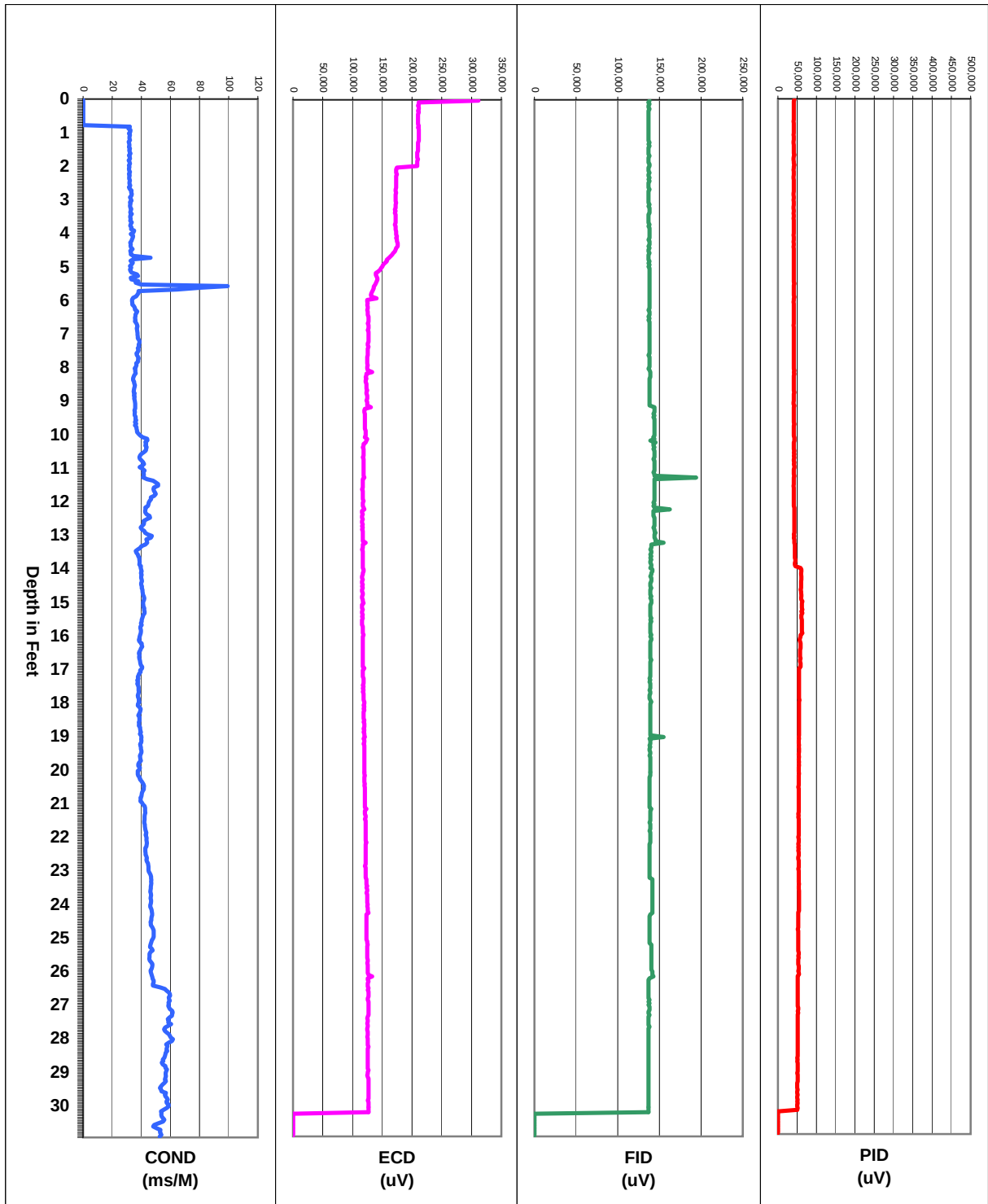
ZEBRA EC/MIP Summary Log, Point MIP27 Brooklyn NY



for: ROUX
by: Zebra Environmental
30 No. Prospect Avenue
Lynbrook, NY 11563
(516) 596-6300

Date: 3/21/2012
Proj. Name: PFIZER SITE
Proj. #: DS20239
Operators: John D.
Point 27 of 0

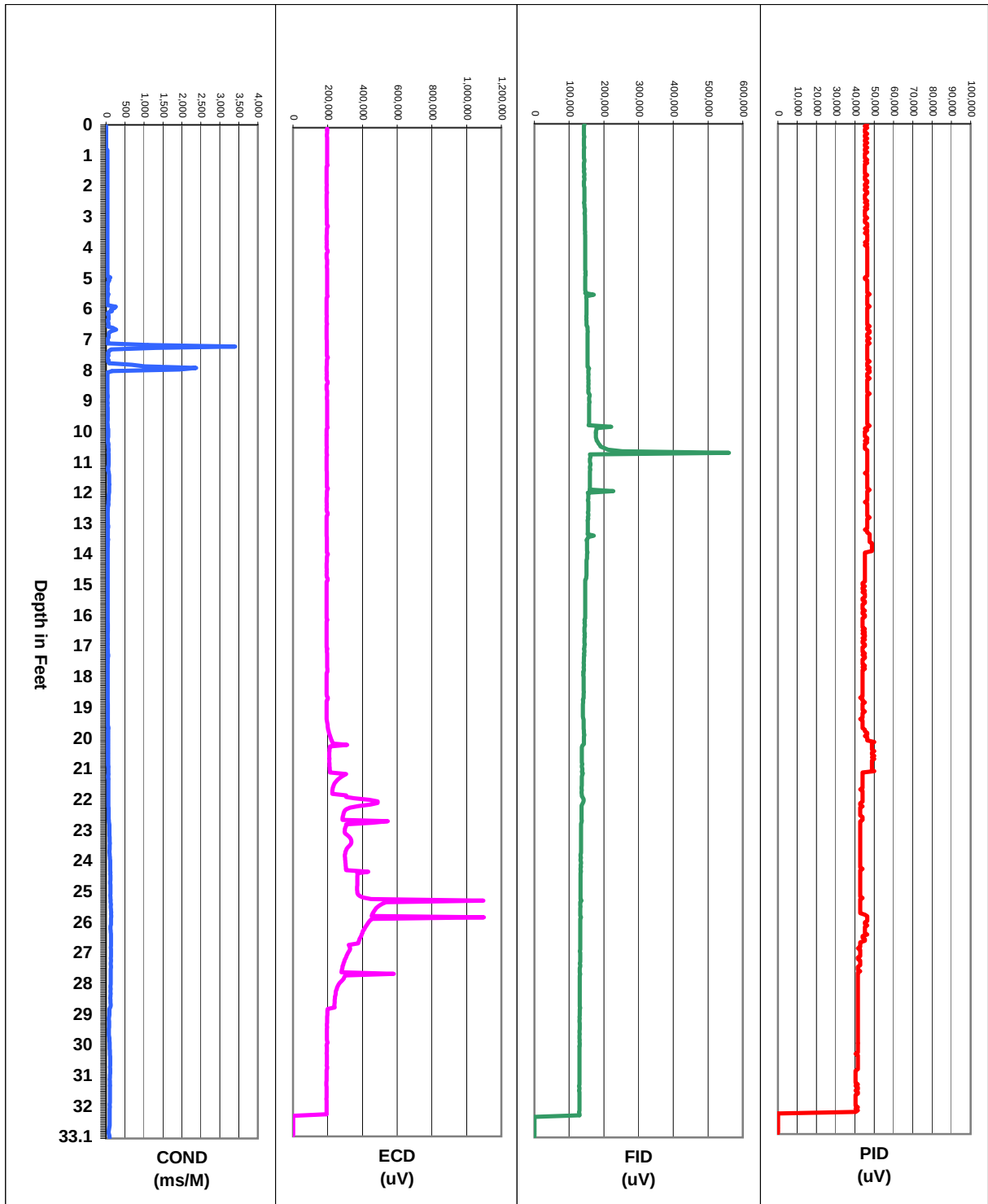
ZEBRA EC/MIP Summary Log, Point MIP28 Brooklyn NY



for: ROUX
by: Zebra Environmental
30 No. Prospect Avenue
Lynbrook, NY 11563
(516) 596-6300

Date: 3/16/2012
Proj. Name: PFIZER SITE
Proj. #: DS20239
Operators: John D.
Point 28 of 0

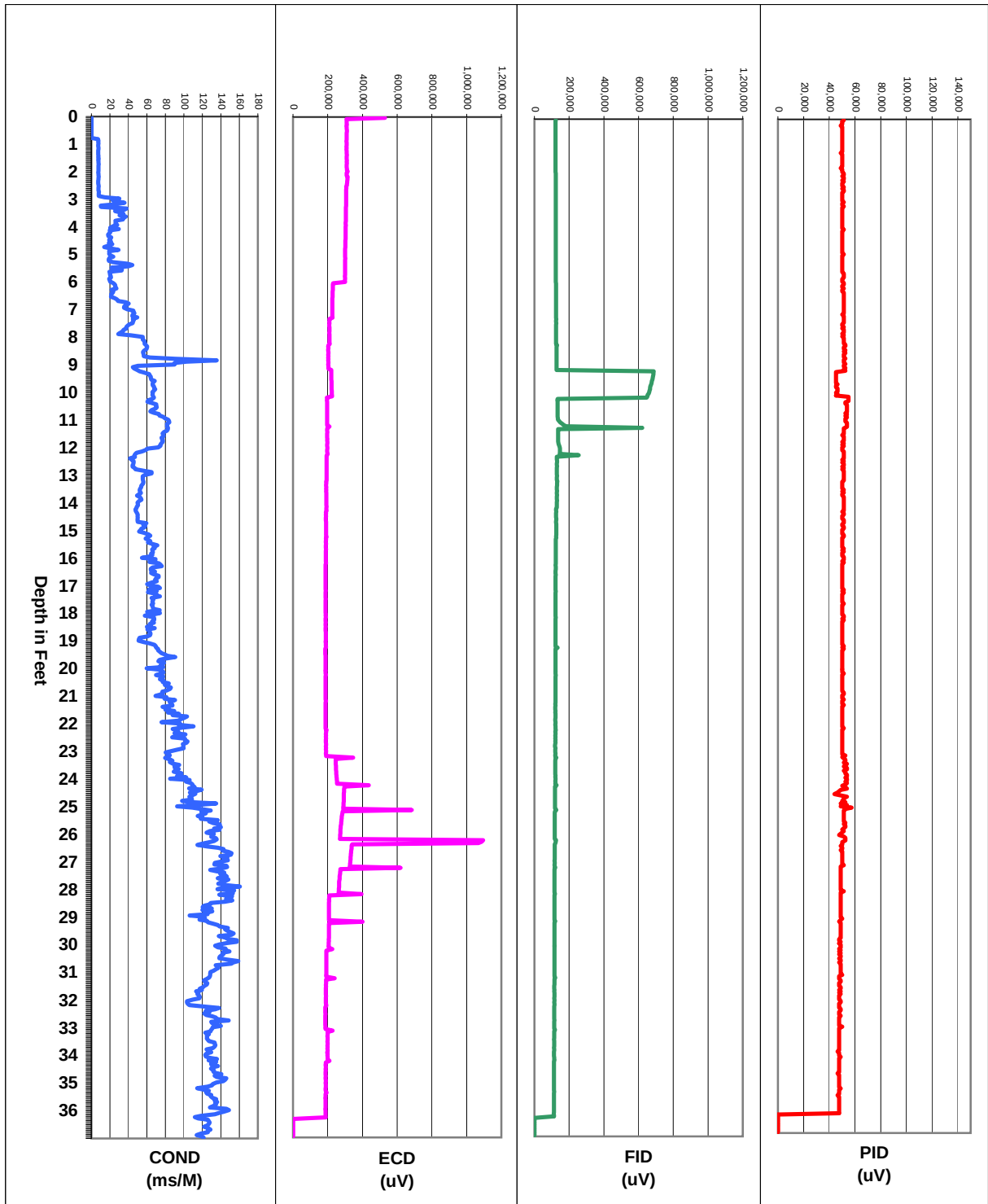
ZEBRA EC/MIP Summary Log, Point MIP29 Brooklyn NY



for: ROUX
by: Zebra Environmental
30 No. Prospect Avenue
Lynbrook, NY 11563
(516) 596-6300

Date: 3/20/2012
Proj. Name: PFIZER SITE
Proj. #: DS20239
Operators: John D.
Point 29 of 0

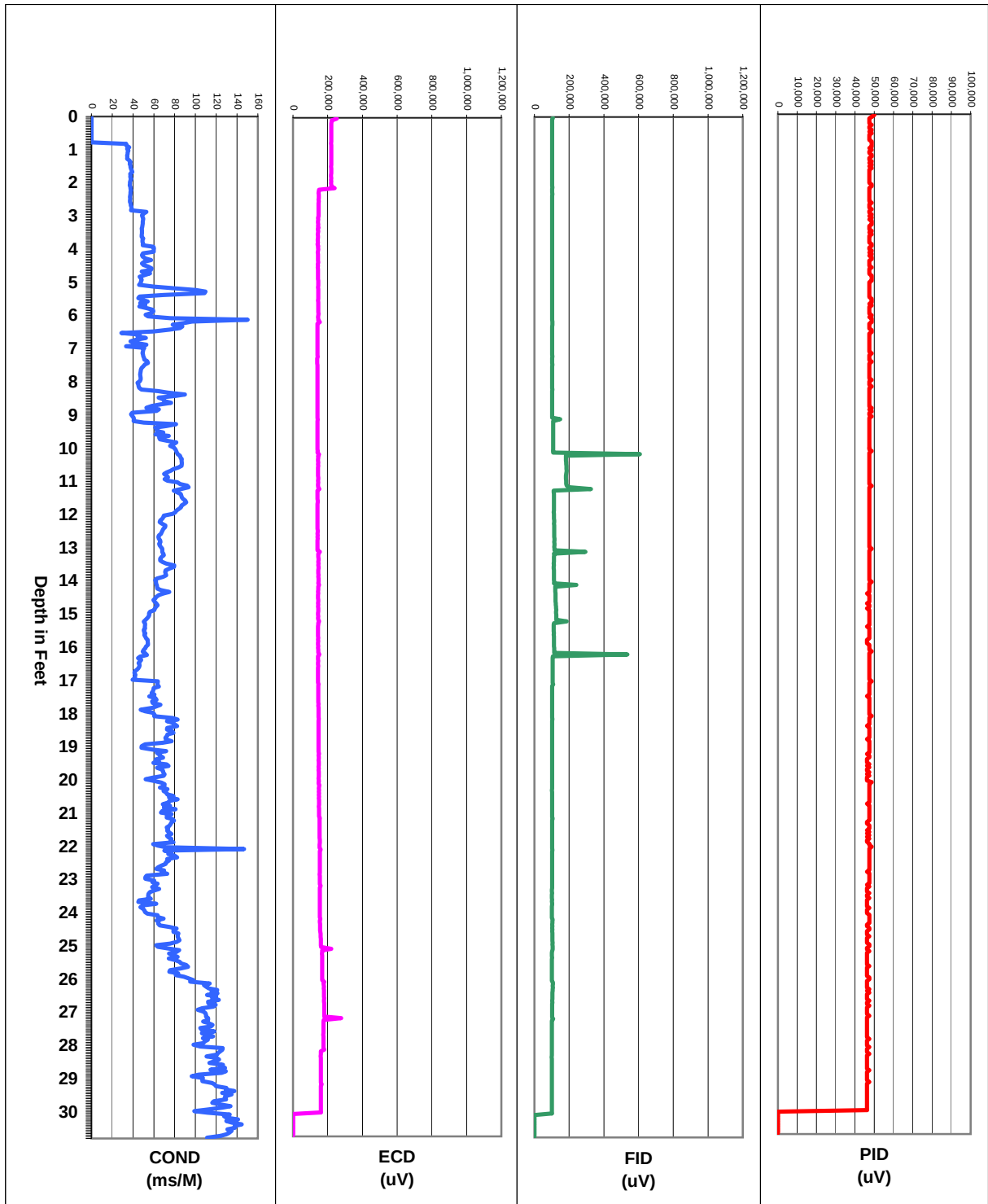
ZEBRA EC/MIP Summary Log, Point MIP30 Brooklyn NY



for: ROUX
by: Zebra Environmental
30 No. Prospect Avenue
Lynbrook, NY 11563
(516) 596-6300

Date: 3/22/2012
Proj. Name: PFIZER SITE
Proj. #: DS20239
Operators: John D.
Point 30 of 0

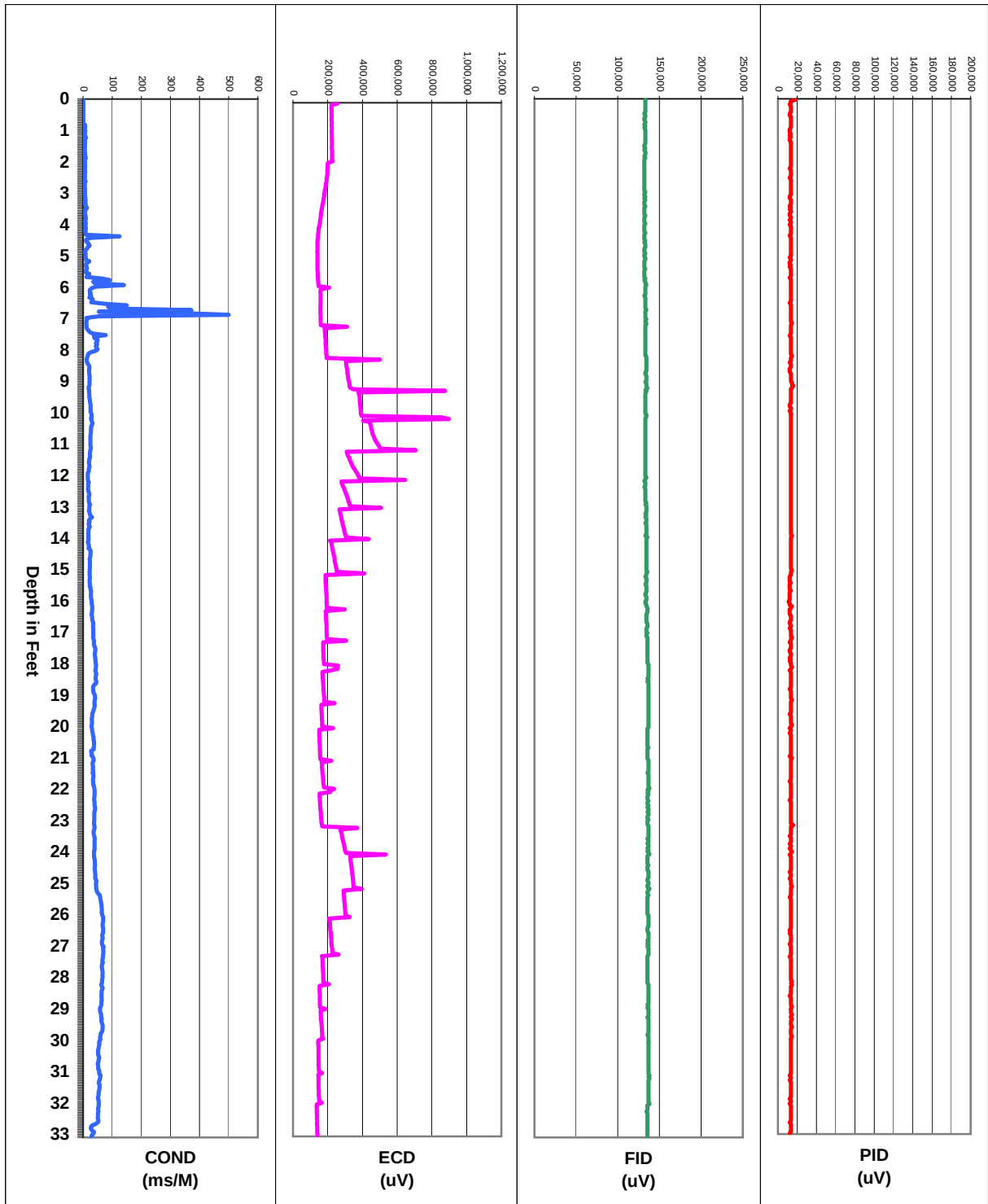
ZEBRA EC/MIP Summary Log, Point MIP31 Brooklyn NY



for: ROUX
by: Zebra Environmental
30 No. Prospect Avenue
Lynbrook, NY 11563
(516) 596-6300

Date: 3/22/2012
Proj. Name: PFIZER SITE
Proj. #: DS20239
Operators: John D.
Point 31 of 0

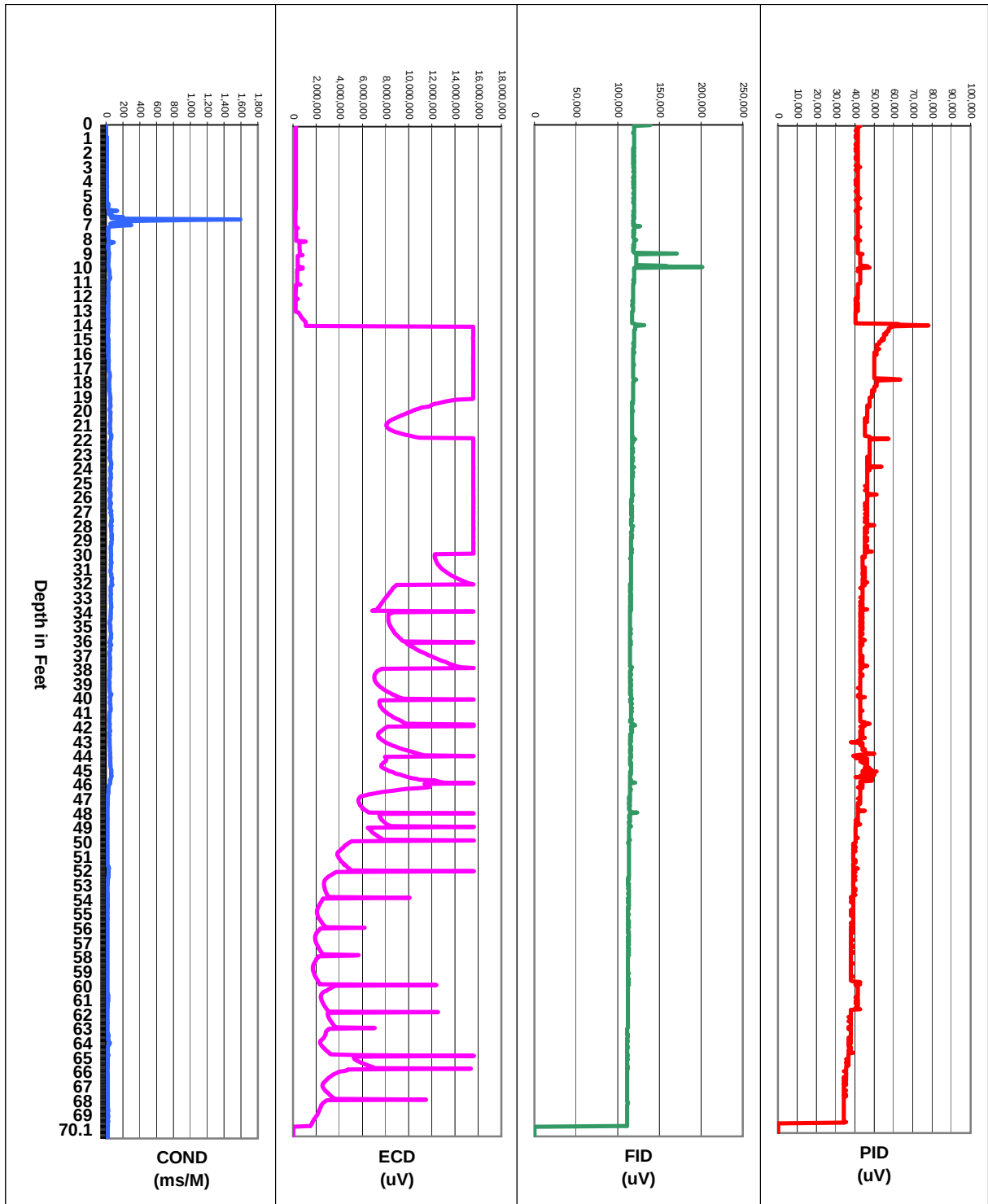
ZEBRA EC/MIP Summary Log, Point MIP32 Brooklyn NY



for: ROUX
 by: Zebra Environmental
 30 No. Prospect Avenue
 Lynbrook, NY 11563
 (516) 596-6300

Date: 3/16/2012
 Proj. Name: PFIZER SITE
 Proj. #: DS20239
 Operators: John D.
 Point 32 of 0

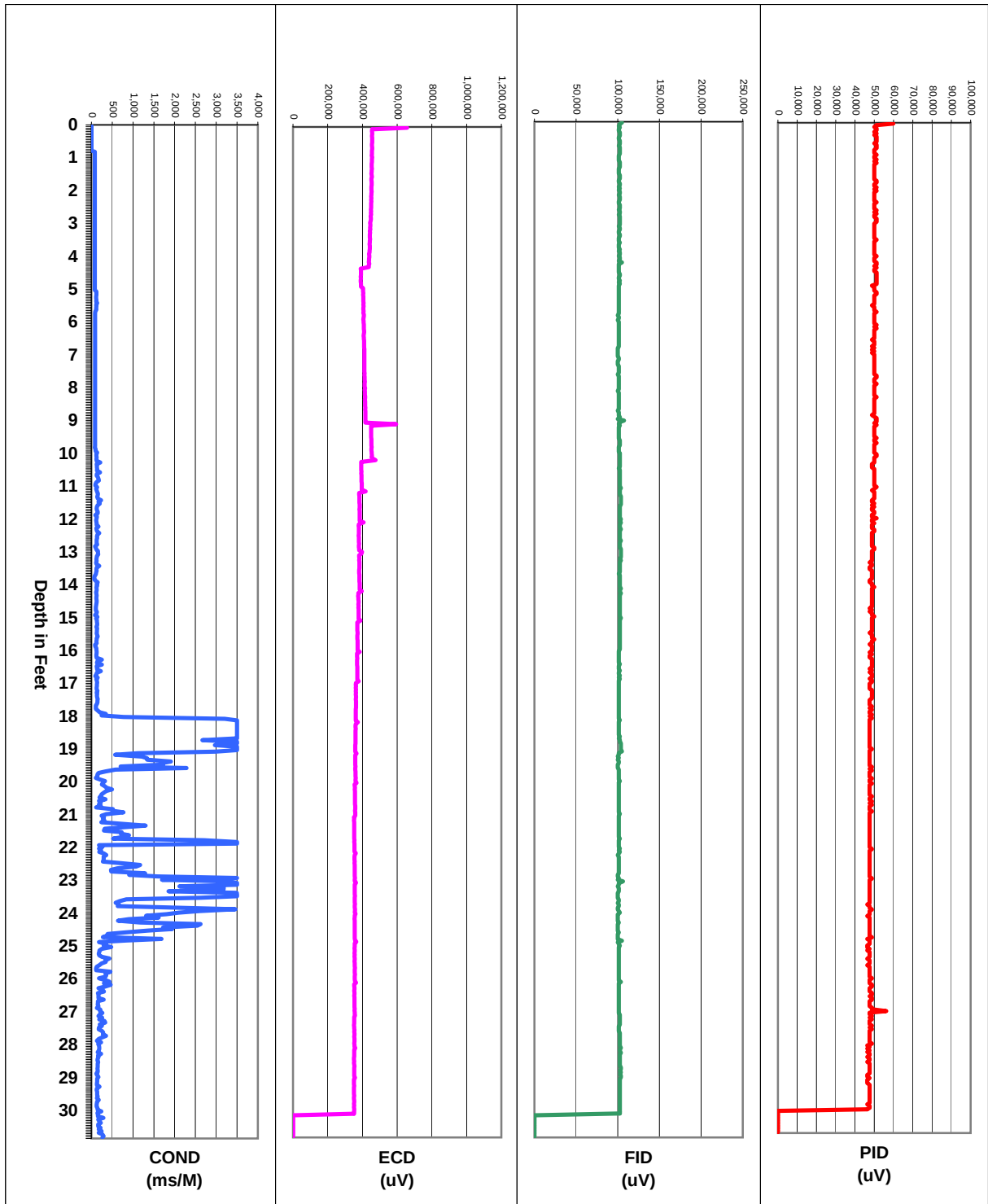
ZEBRA EC/MIP Summary Log, Point MIP33 Brooklyn NY



for: ROUX
by: Zebra Environmental
30 No. Prospect Avenue
Lynbrook, NY 11563
(516) 596-6300

Date: 3/20/2012
Proj. Name: PFIZER SITE
Proj. #: DS20239
Operators: John D.
Point 33 of 0

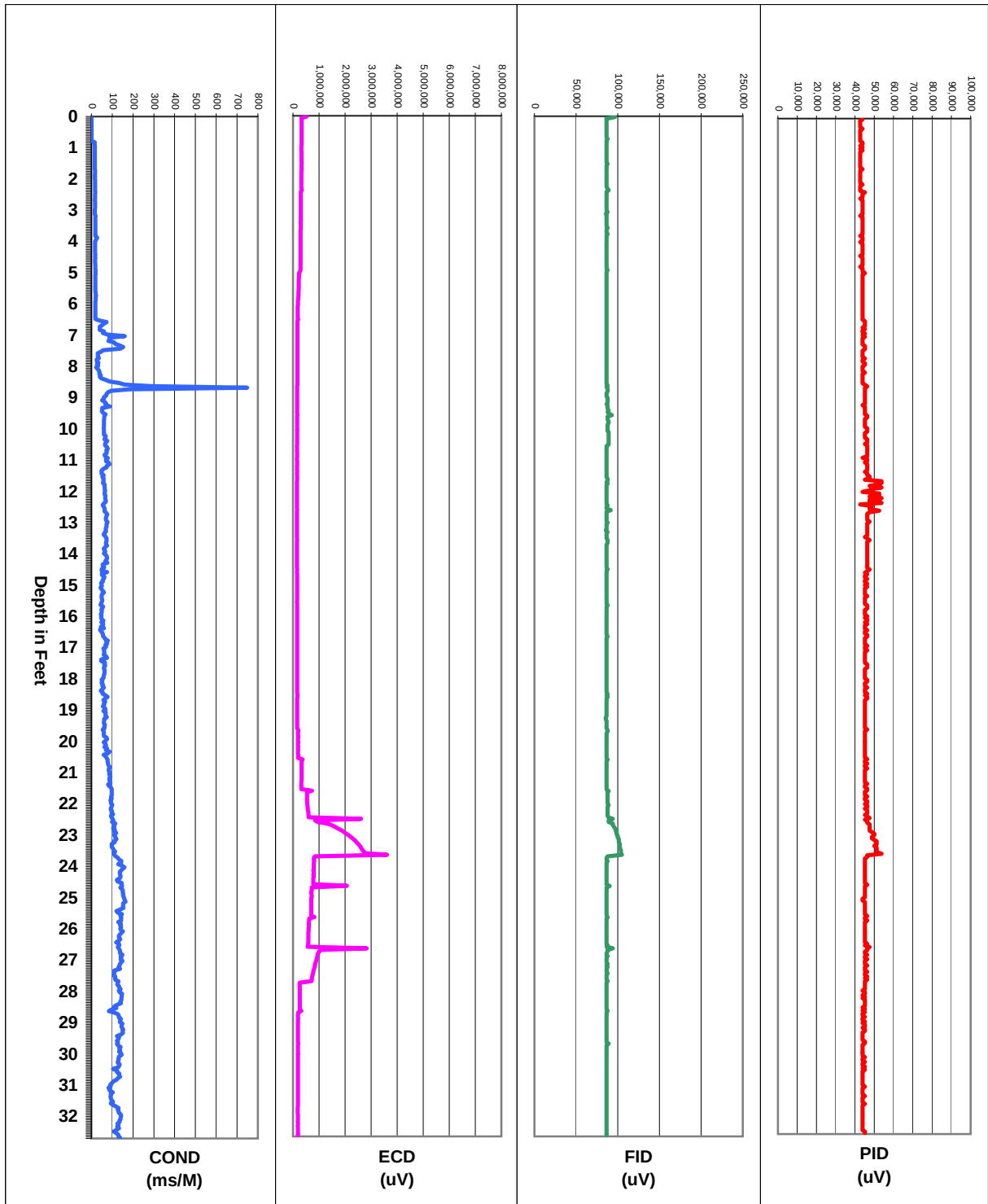
ZEBRA EC/MIP Summary Log, Point MIP34 Brooklyn NY



for: ROUX
by: Zebra Environmental
30 No. Prospect Avenue
Lynbrook, NY 11563
(516) 596-6300

Date: 3/20/2012
Proj. Name: PFIZER SITE
Proj. #: DS20239
Operators: John D.
Point 34 of 0

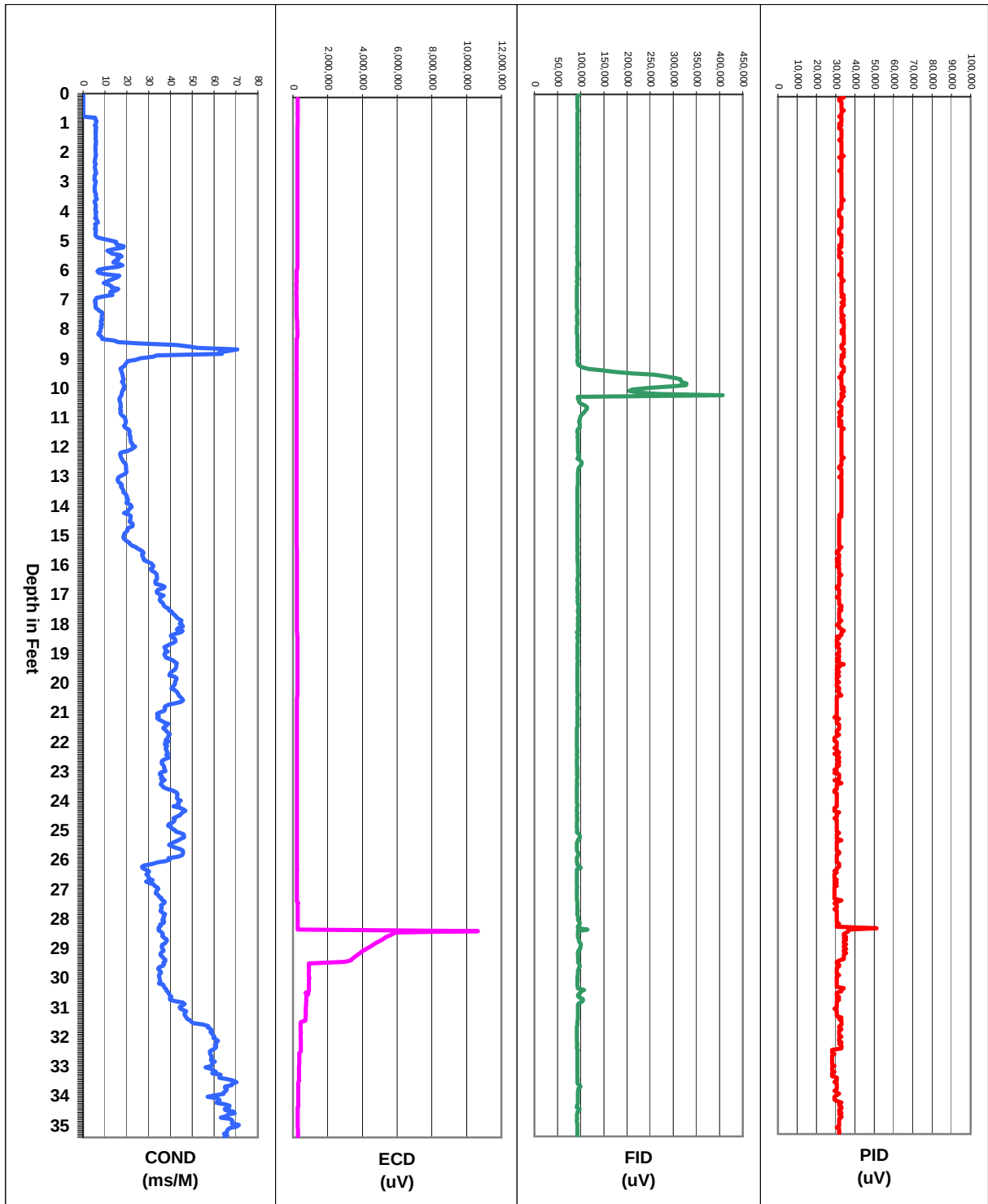
ZEBRA EC/MIP Summary Log, Point MIP35 Brooklyn NY



for: ROUX
by: Zebra Environmental
30 No. Prospect Avenue
Lynbrook, NY 11563
(516) 596-6300

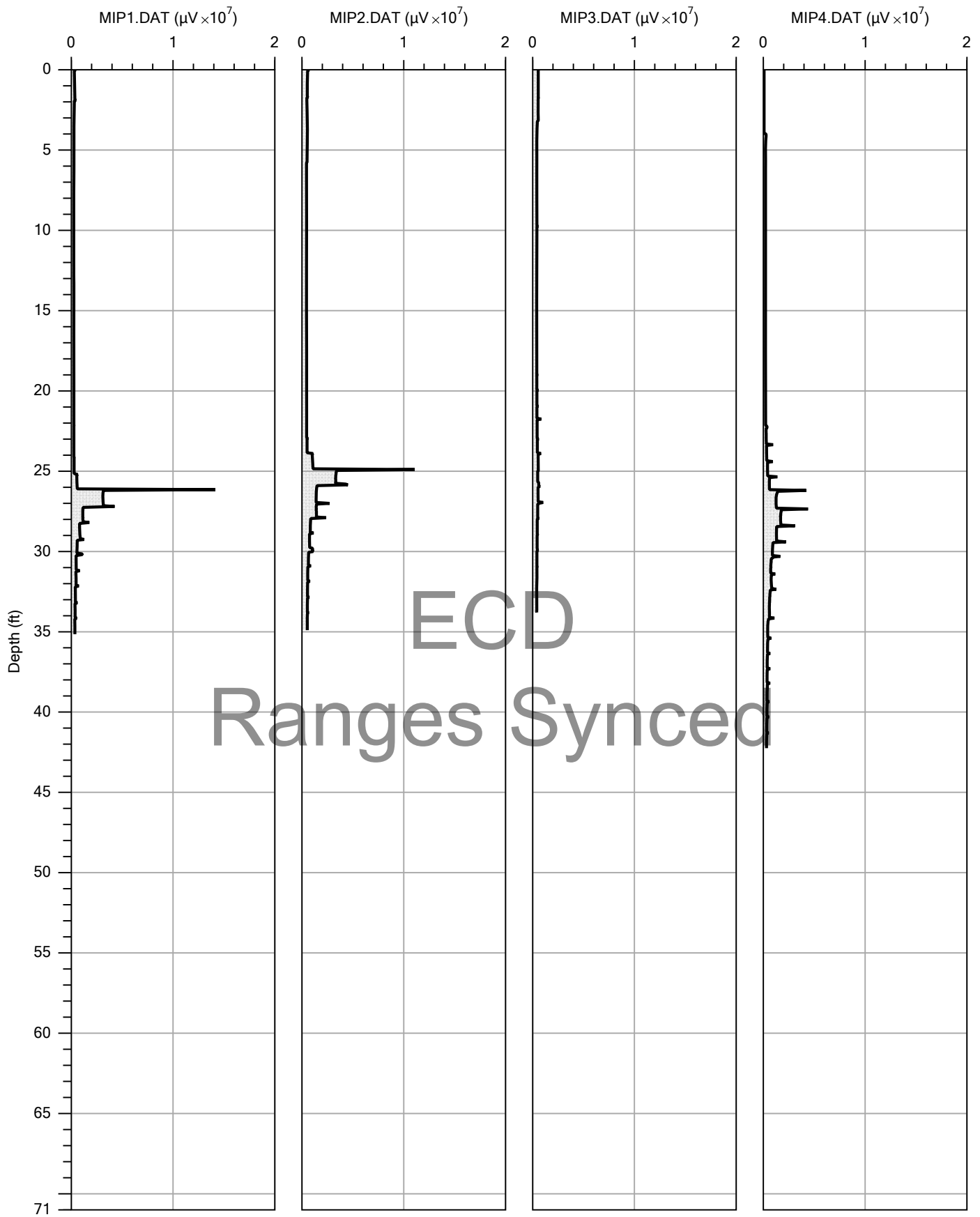
Date: 3/21/2012
Proj. Name: PFIZER SITE
Proj. #: DS20239
Operators: John D.
Point 35 of 0

ZEBRA EC/MIP Summary Log, Point MIP36 Brooklyn NY



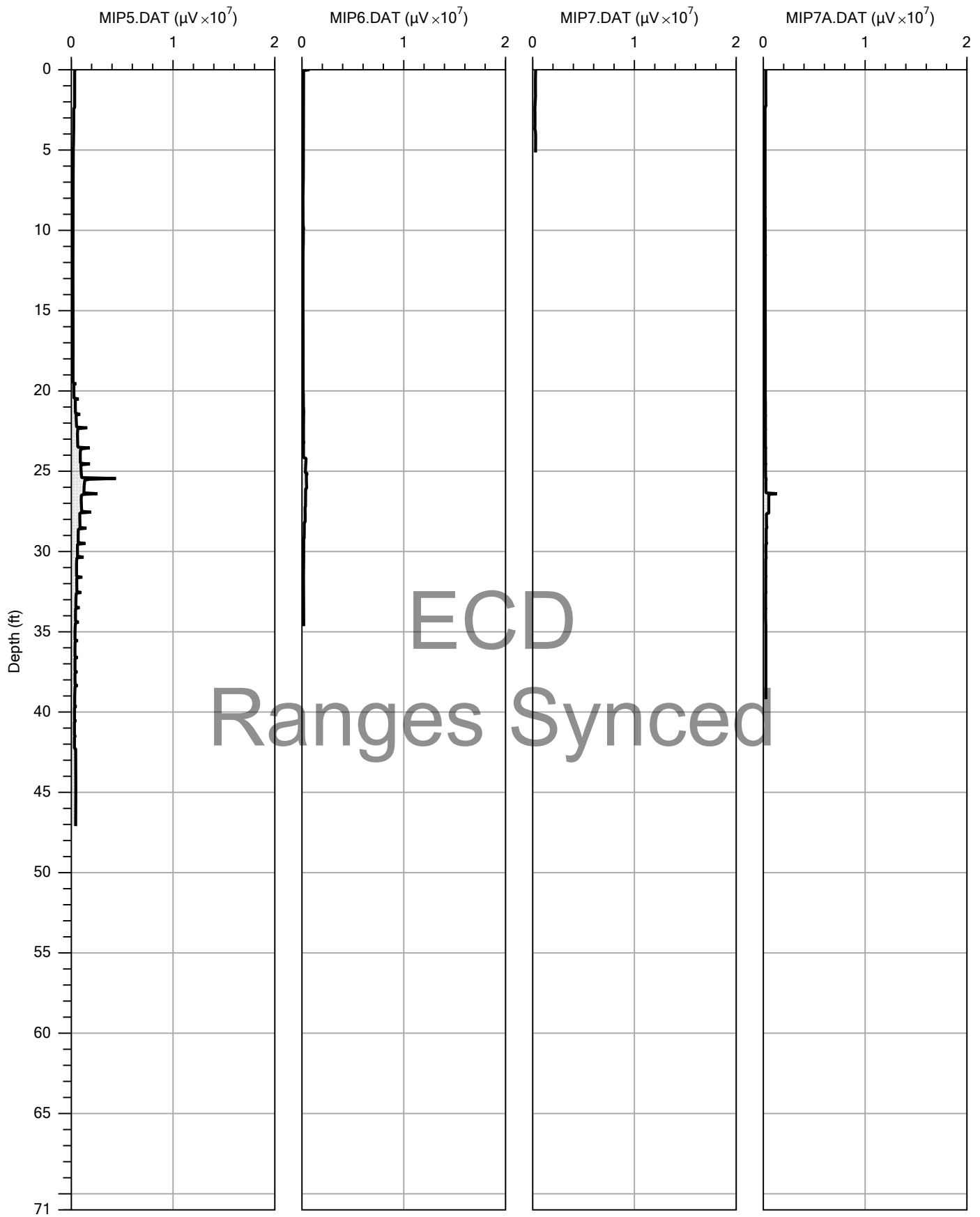
for: ROUX
 by: Zebra Environmental
 30 No. Prospect Avenue
 Lynbrook, NY 11563
 (516) 596-6300

Date: 3/14/2012
 Proj. Name: PFIZER SITE
 Proj. #: DS20239
 Operators: John D.
 Point 36 of 0



ECD Max

Company:	ZEBRA	Operator:	JD
Project ID:	PFIZER	Client:	ROUX
		MIP1.DAT	3/22/2012
		MIP2.DAT	3/22/2012
		MIP3.DAT	3/22/2012
		MIP4.DAT	3/23/2012

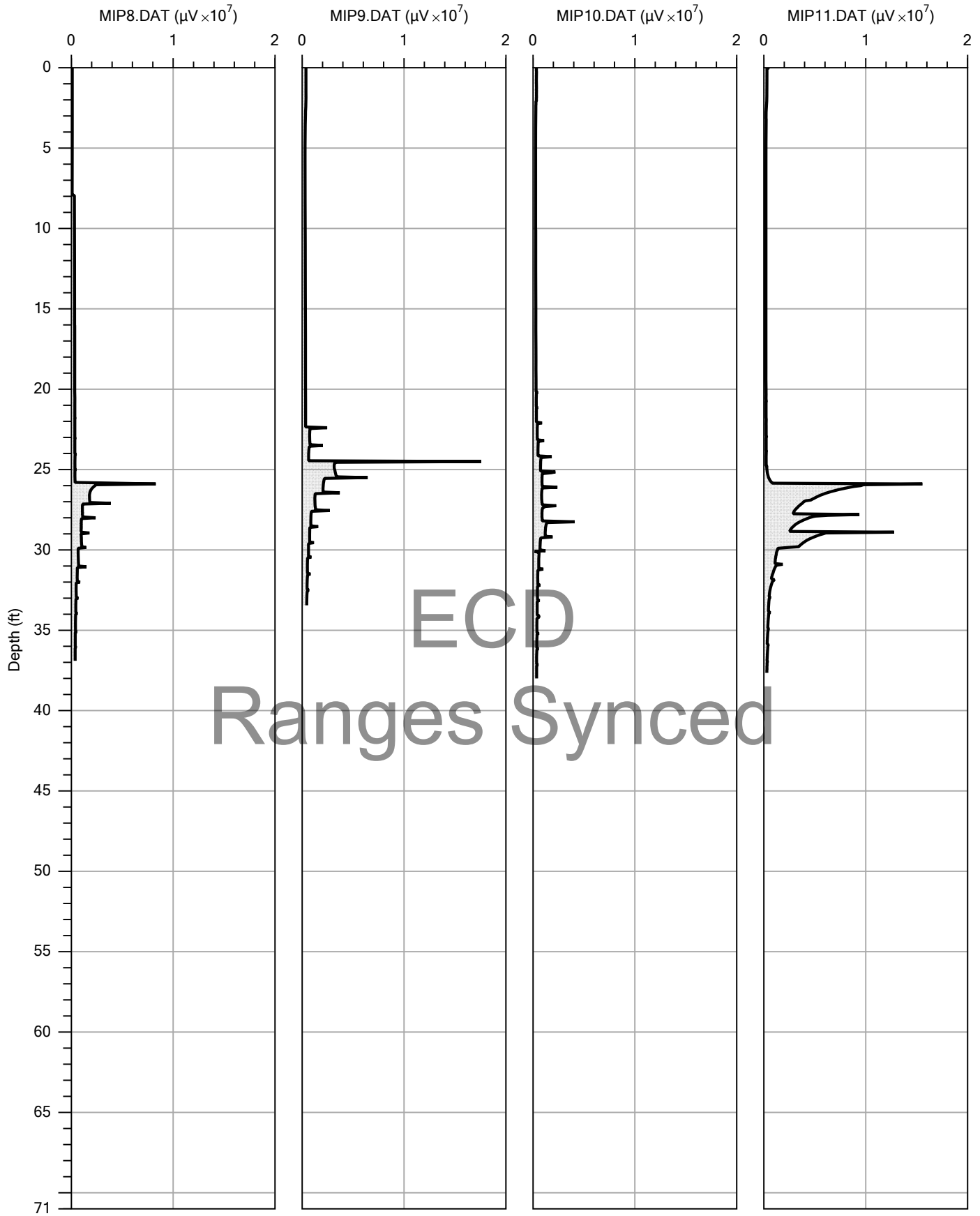


ECD Max

Company: ZEBRA
Project ID: PFIZER

Operator: JD
Client: ROUX

MIP5.DAT	3/23/2012
MIP6.DAT	3/15/2012
MIP7.DAT	3/15/2012
MIP7A.DAT	3/22/2012

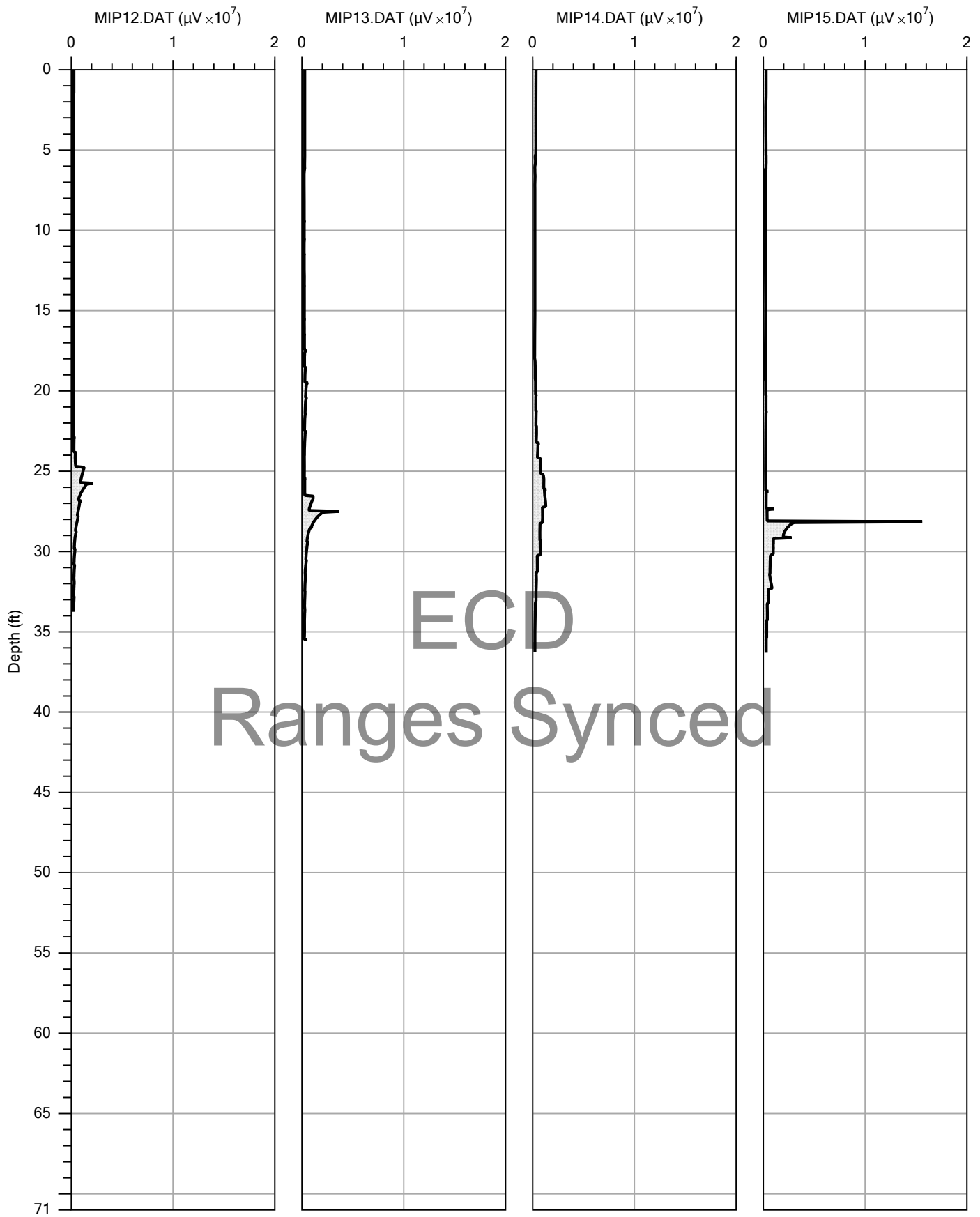


ECD Max

Company: ZEBRA
Project ID: PFIZER

Operator: JD
Client: ROUX

MIP8.DAT	3/23/2012
MIP9.DAT	3/23/2012
MIP10.DAT	3/23/2012
MIP11.DAT	3/13/2012

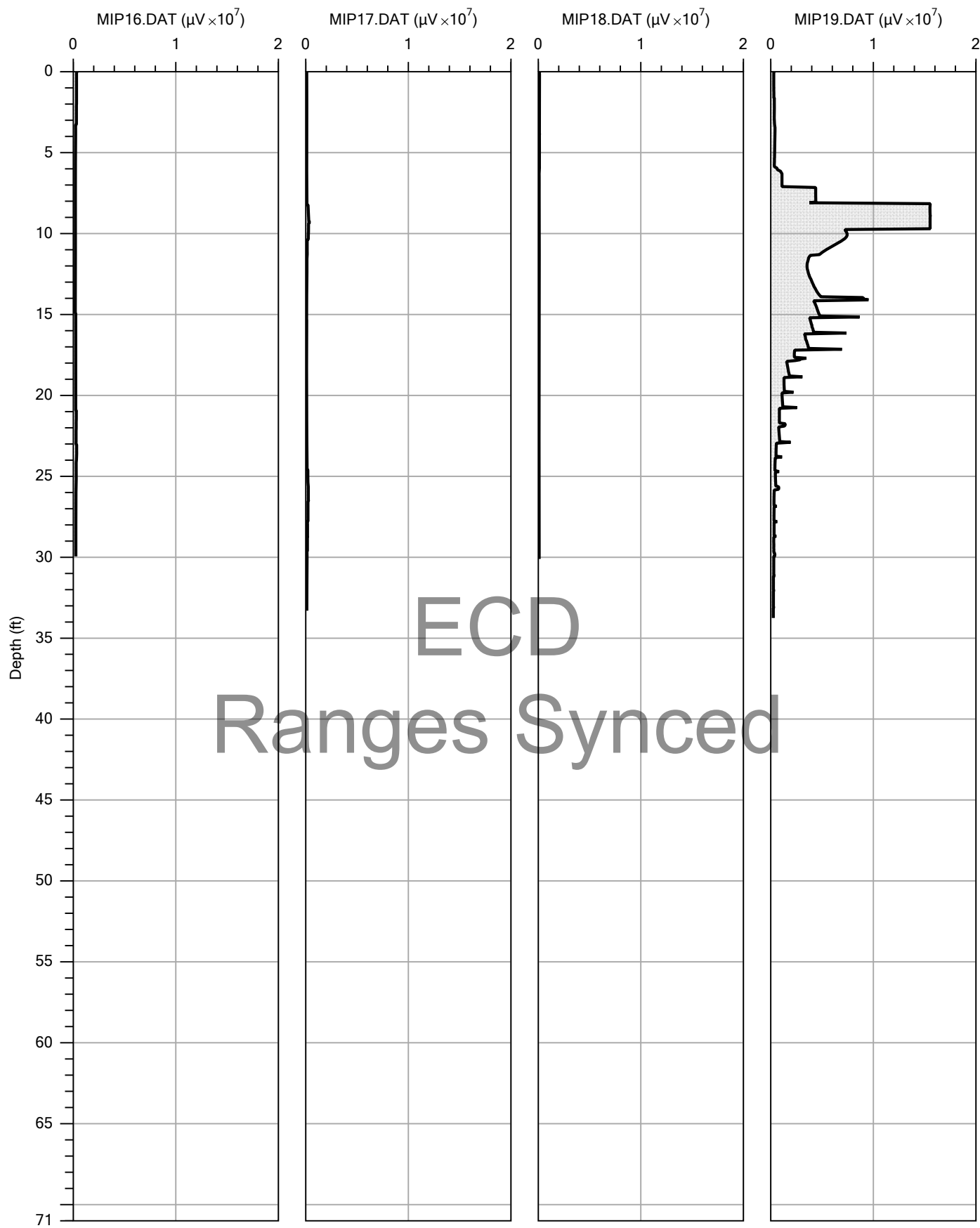


ECD Max

Company: ZEBRA
Project ID: PFIZER

Operator: JD
Client: ROUX

MIP12.DAT	3/13/2012
MIP13.DAT	3/13/2012
MIP14.DAT	3/14/2012
MIP15.DAT	3/14/2012

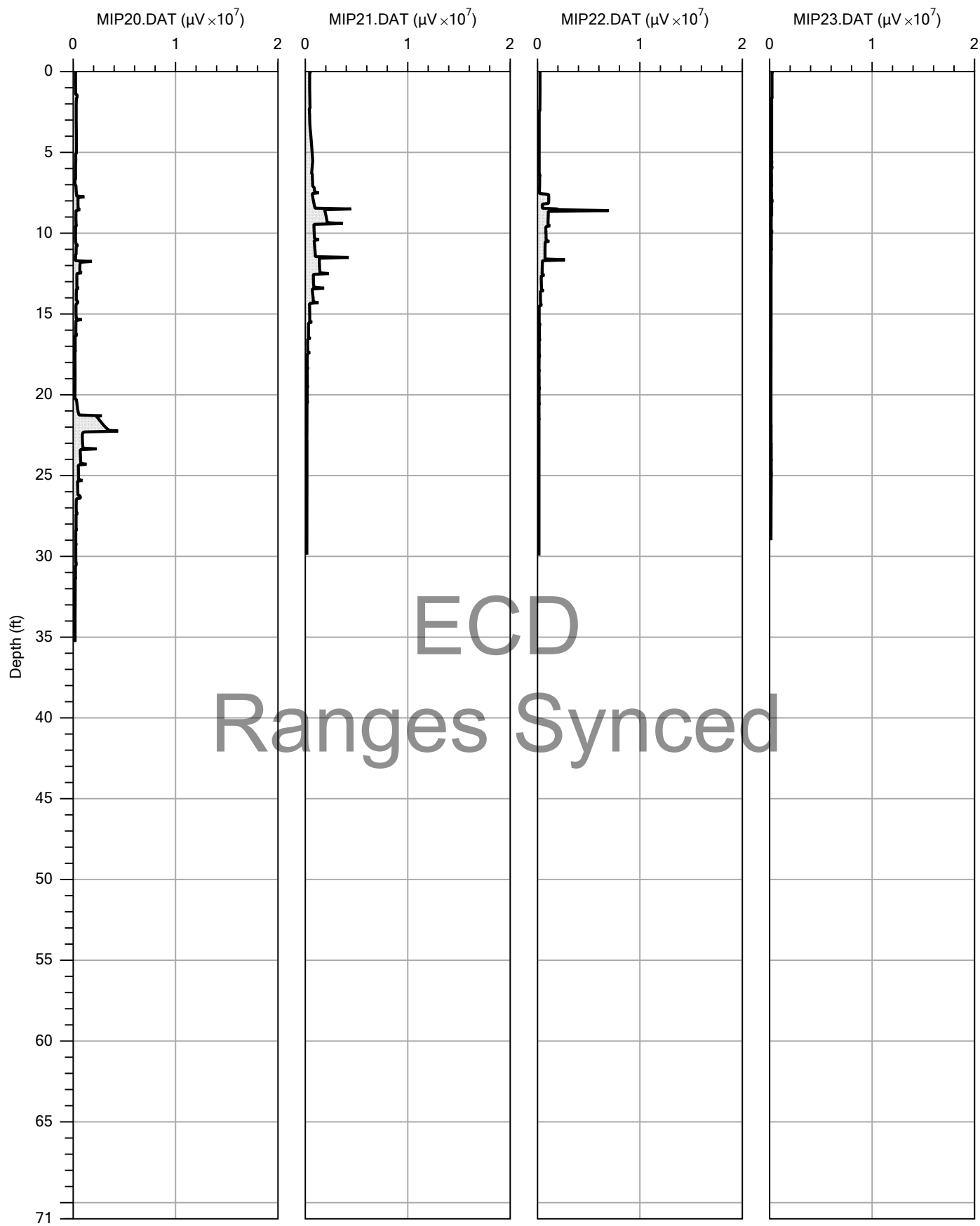


ECD Max

Company: ZEBRA
Project ID: PFIZER

Operator: JD
Client: ROUX

MIP16.DAT 3/14/2012
MIP17.DAT 3/15/2012
MIP18.DAT 3/15/2012
MIP19.DAT 3/19/2012

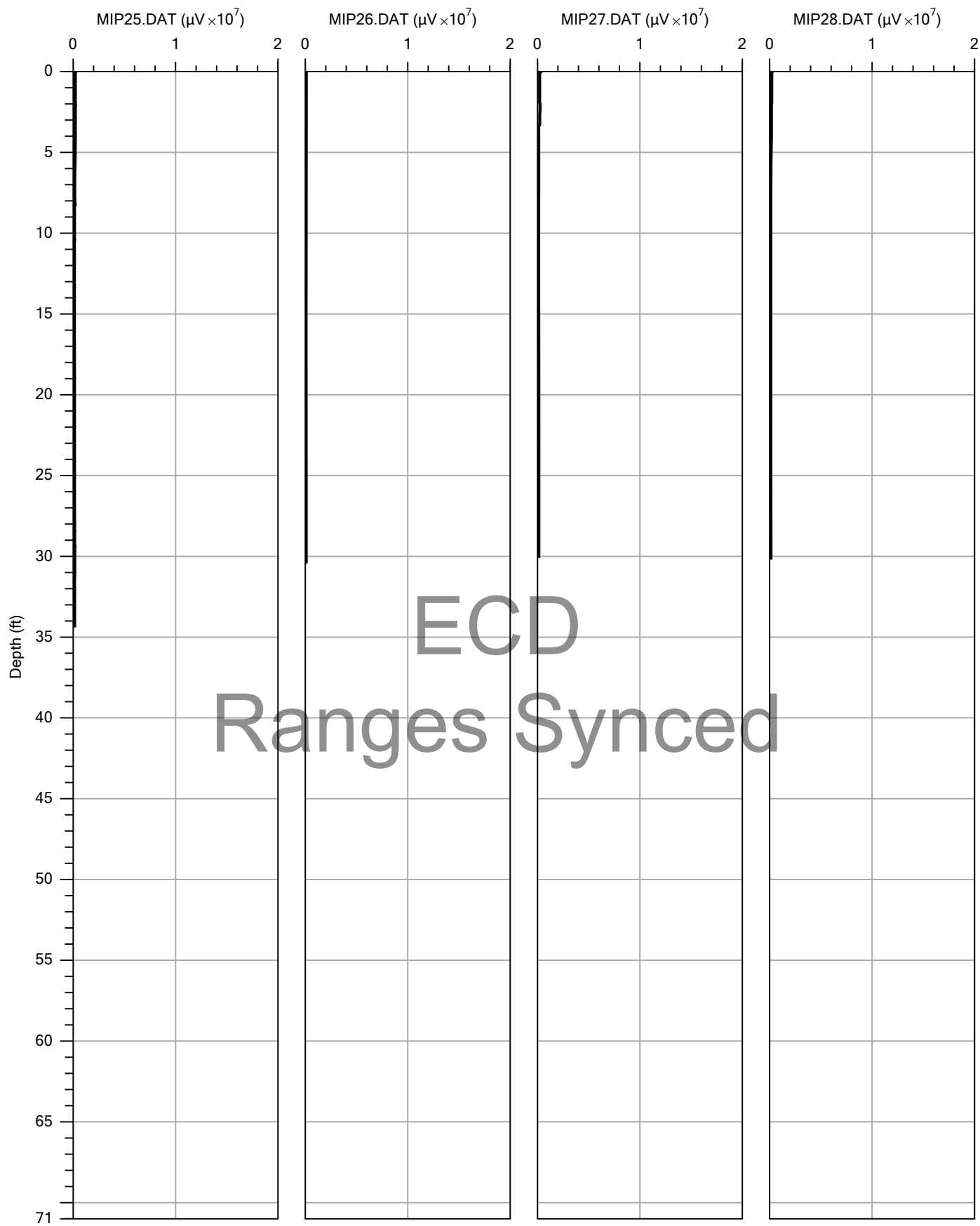


ECD Max

Company: ZEBRA
Project ID: PFIZER

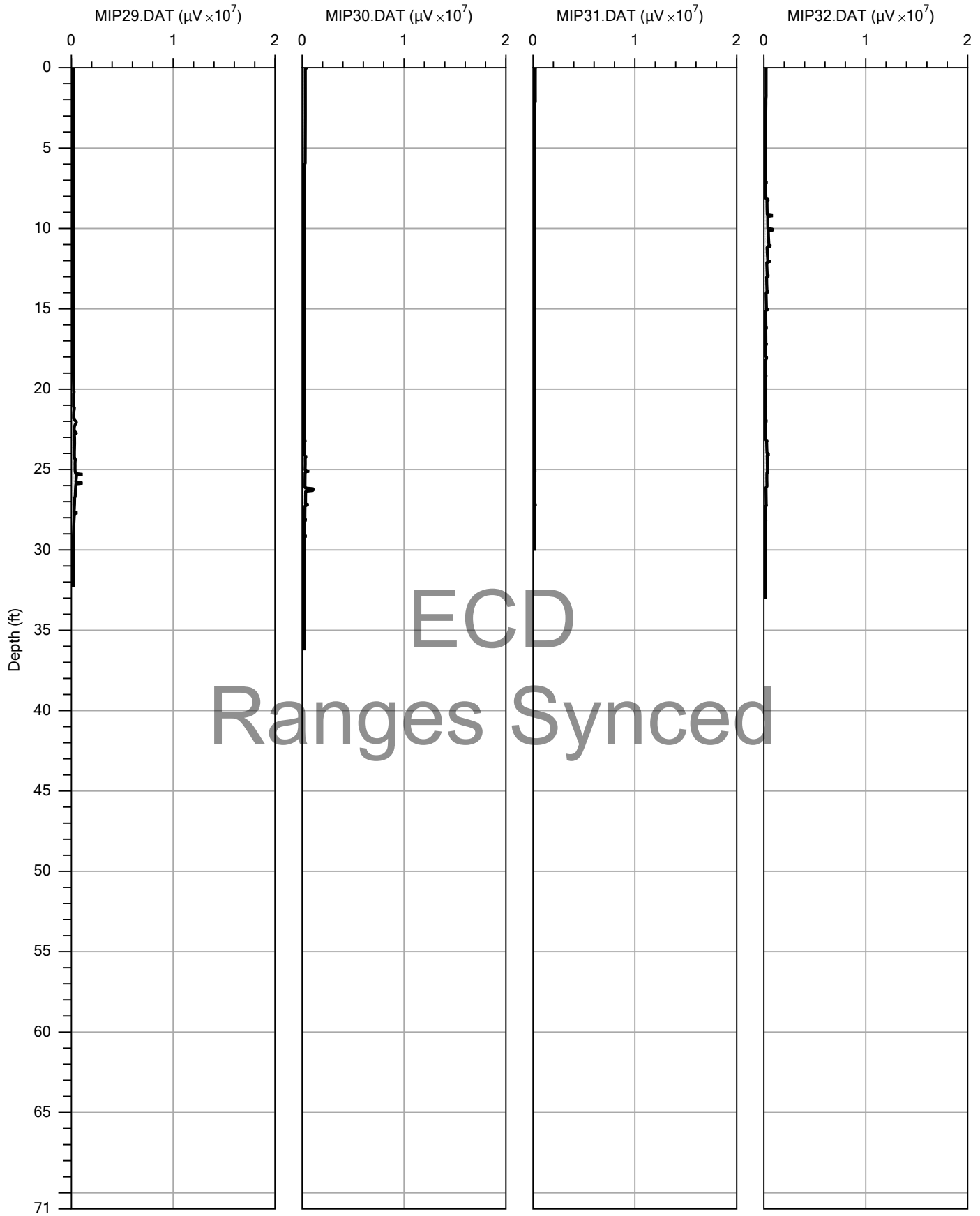
Operator: JD
Client: ROUX

MIP20.DAT	3/19/2012
MIP21.DAT	3/21/2012
MIP22.DAT	3/21/2012
MIP23.DAT	3/16/2012



ECD Max

Company:	ZEBRA	Operator:	JD
Project ID:	PFIZER	Client:	ROUX
		MIP25.DAT	3/21/2012
		MIP26.DAT	3/16/2012
		MIP27.DAT	3/21/2012
		MIP28.DAT	3/16/2012

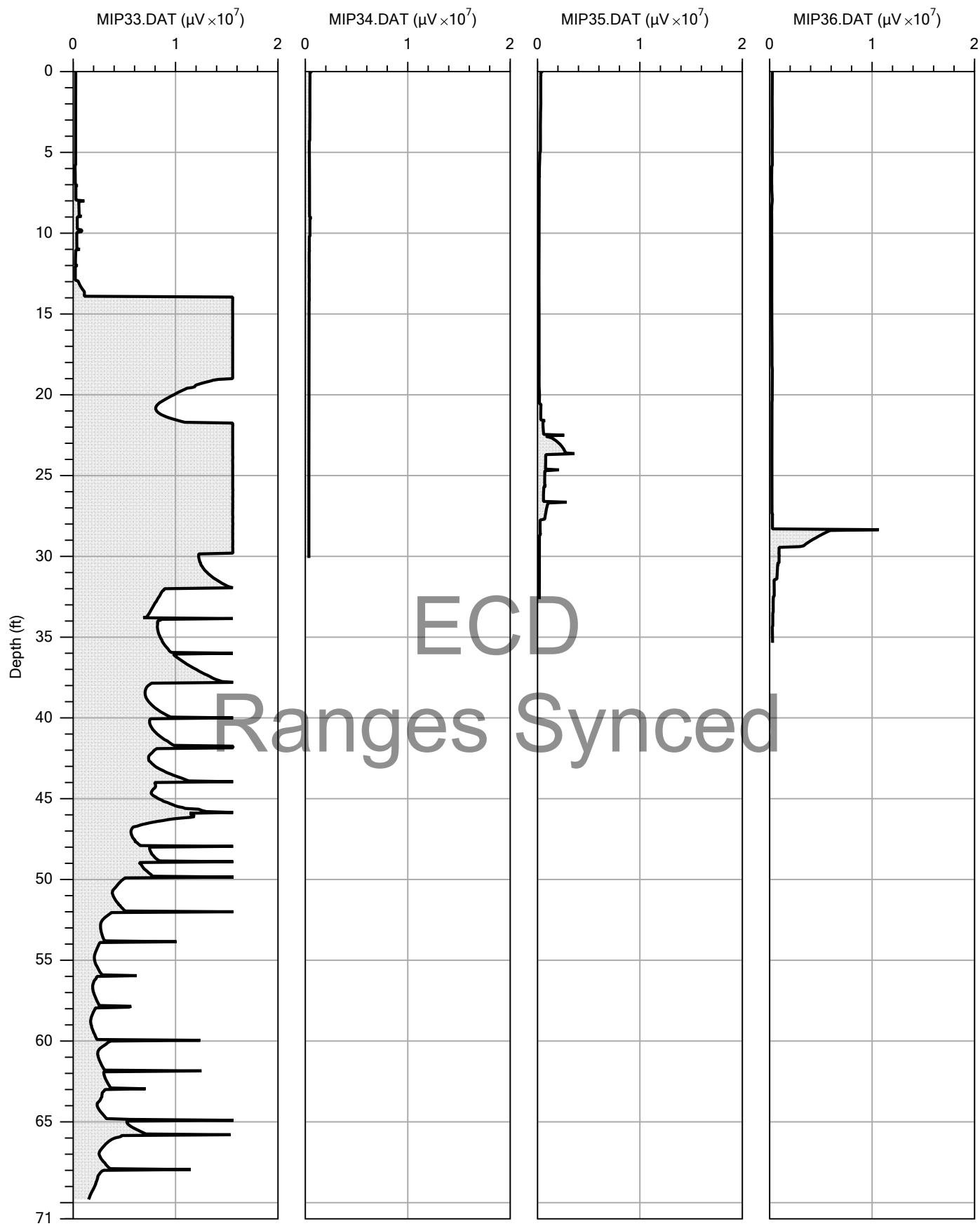


ECD Max

Company: ZEBRA
Project ID: PFIZER

Operator: JD
Client: ROUX

MIP29.DAT	3/20/2012
MIP30.DAT	3/22/2012
MIP31.DAT	3/22/2012
MIP32.DAT	3/16/2012

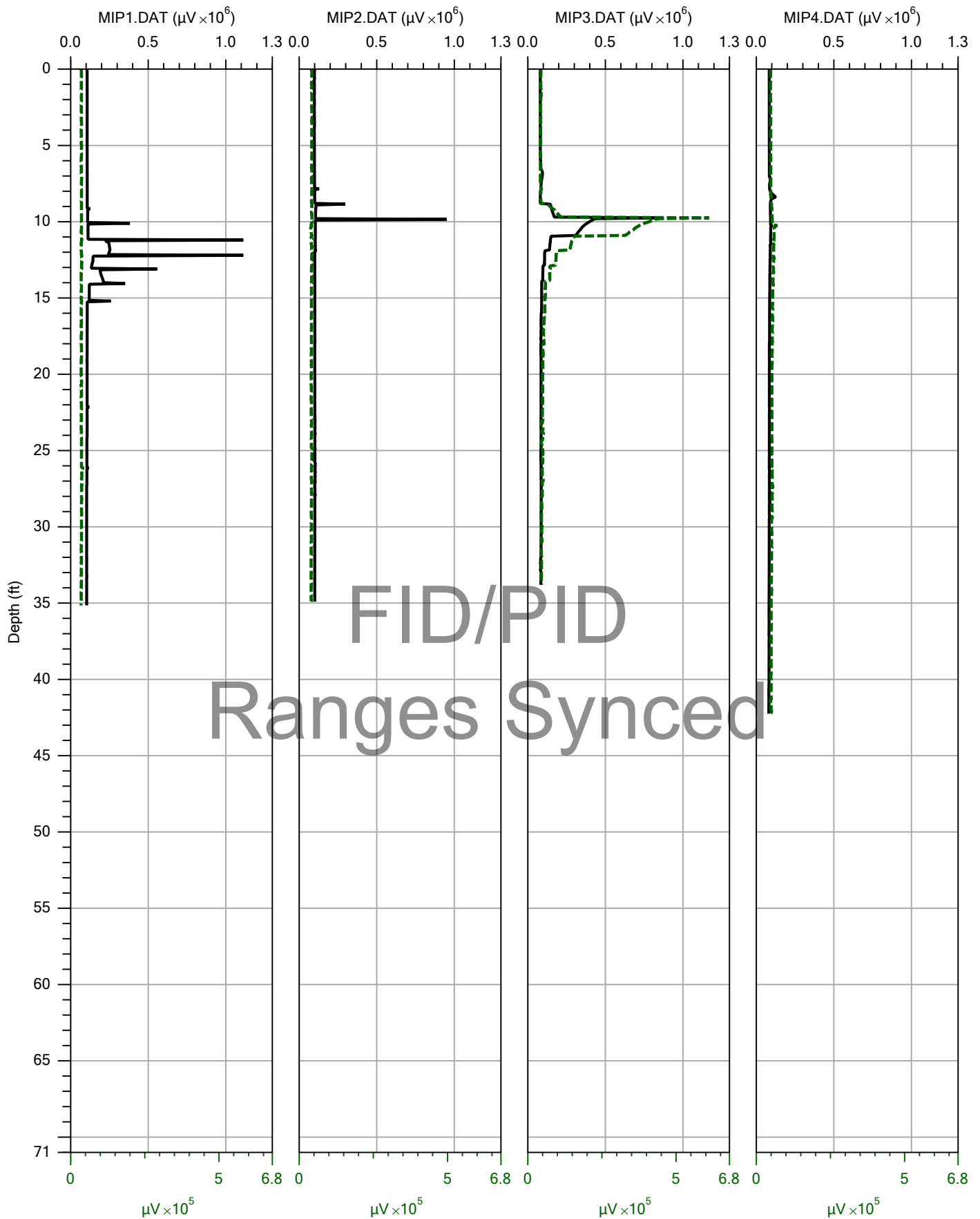


ECD Max

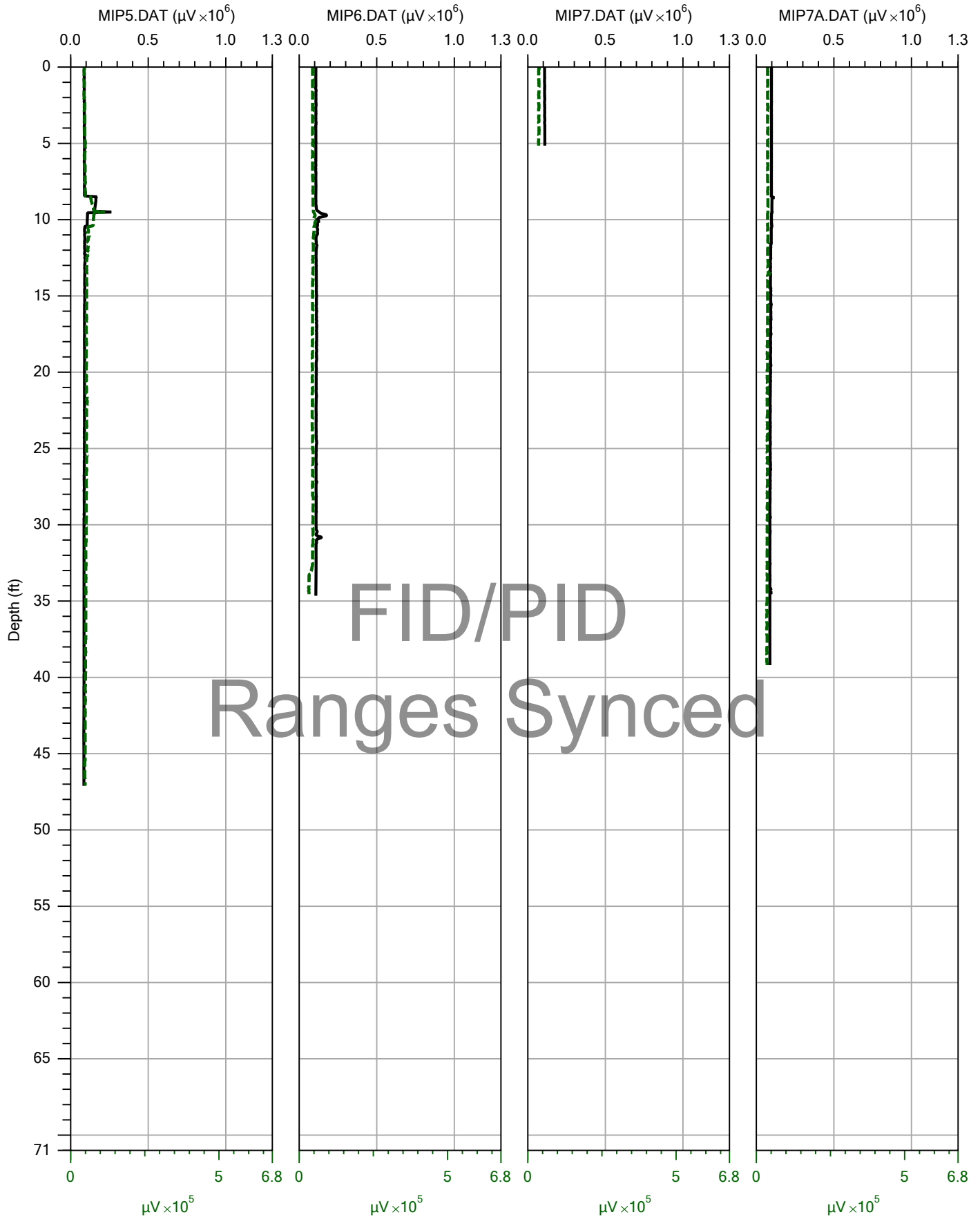
Company: ZEBRA
Project ID: PFIZER

Operator: JD
Client: ROUX

MIP33.DAT 3/20/2012
MIP34.DAT 3/20/2012
MIP35.DAT 3/21/2012
MIP36.DAT 3/14/2012

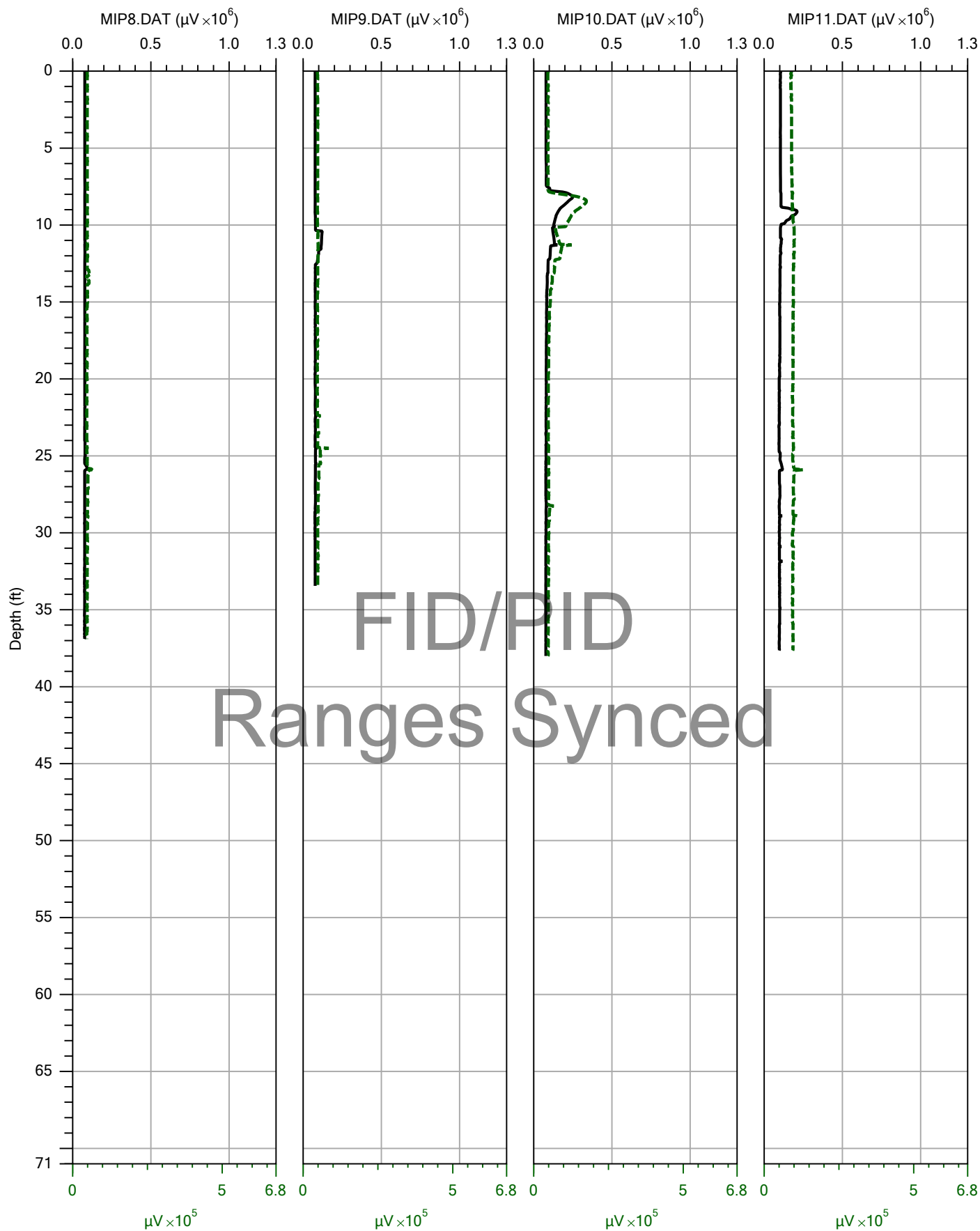


FID Max / PID Max			
Company:	ZEBRA	Operator:	JD
Project ID:	PFIZER	Client:	ROUX
		MIP1.DAT	3/22/2012
		MIP2.DAT	3/22/2012
		MIP3.DAT	3/22/2012
		MIP4.DAT	3/23/2012



FID Max / PID Max

Company:	ZEBRA	Operator:	JD
Project ID:	PFIZER	Client:	ROUX
		MIP5.DAT	3/23/2012
		MIP6.DAT	3/15/2012
		MIP7.DAT	3/15/2012
		MIP7A.DAT	3/22/2012

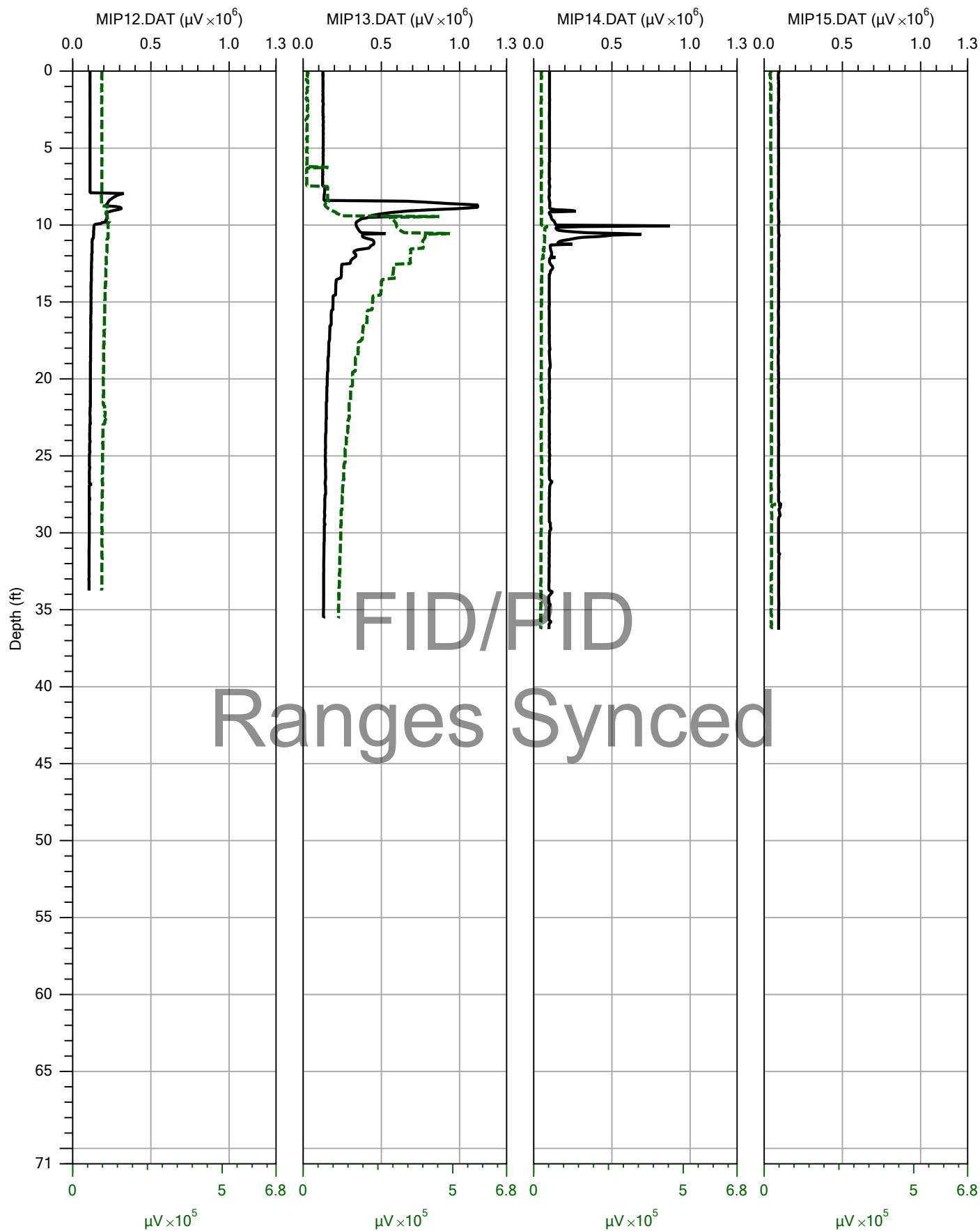


FID Max / PID Max

Company: ZEBRA
Project ID: PFIZER

Operator: JD
Client: ROUX

MIP8.DAT	3/23/2012
MIP9.DAT	3/23/2012
MIP10.DAT	3/23/2012
MIP11.DAT	3/13/2012

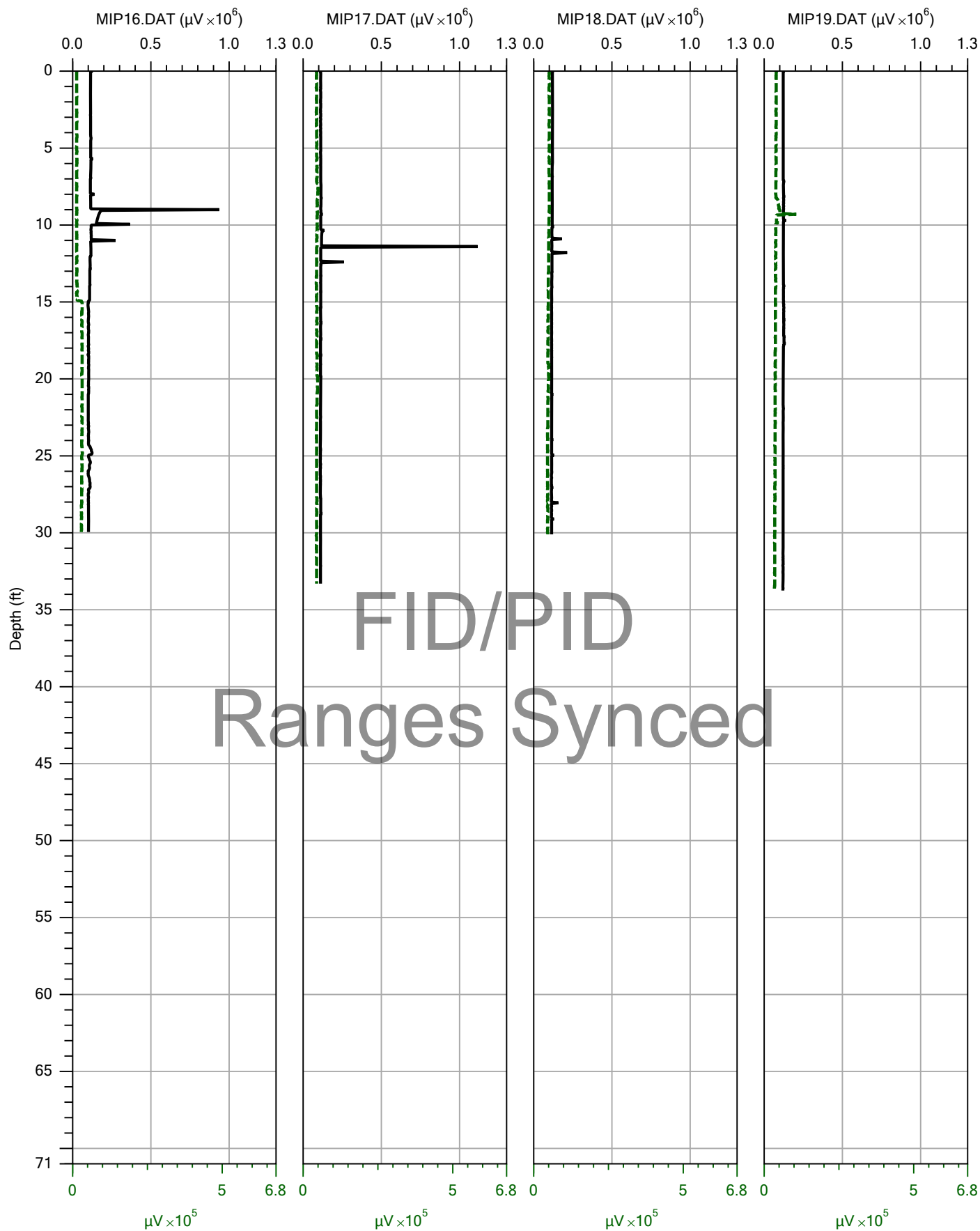


FID Max / PID Max

Company: ZEBRA
Project ID: PFIZER

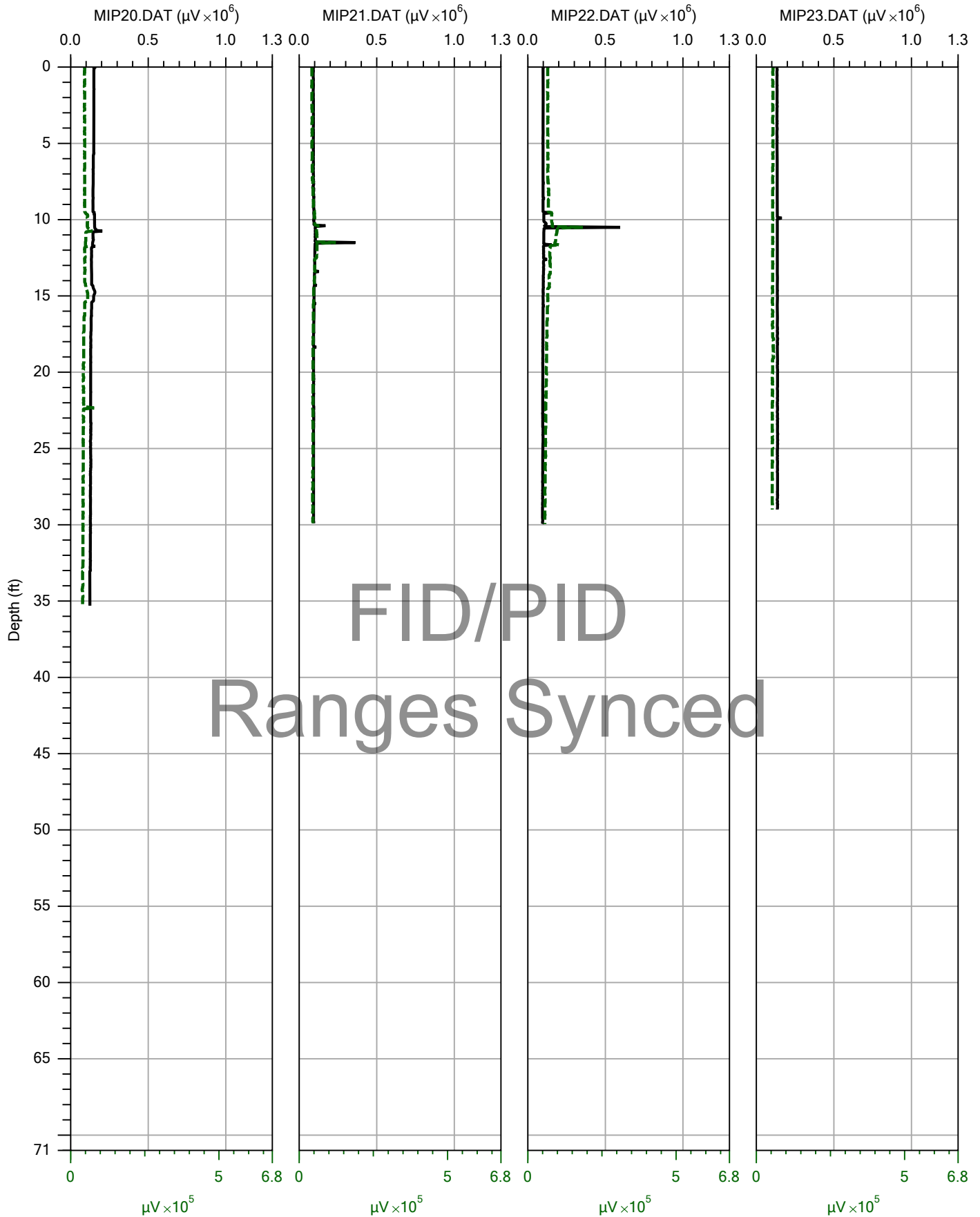
Operator: JD
Client: ROUX

MIP12.DAT	3/13/2012
MIP13.DAT	3/13/2012
MIP14.DAT	3/14/2012
MIP15.DAT	3/14/2012



FID Max / PID Max

Company:	ZEBRA	Operator:	JD
Project ID:	PFIZER	Client:	ROUX
		MIP16.DAT	3/14/2012
		MIP17.DAT	3/15/2012
		MIP18.DAT	3/15/2012
		MIP19.DAT	3/19/2012

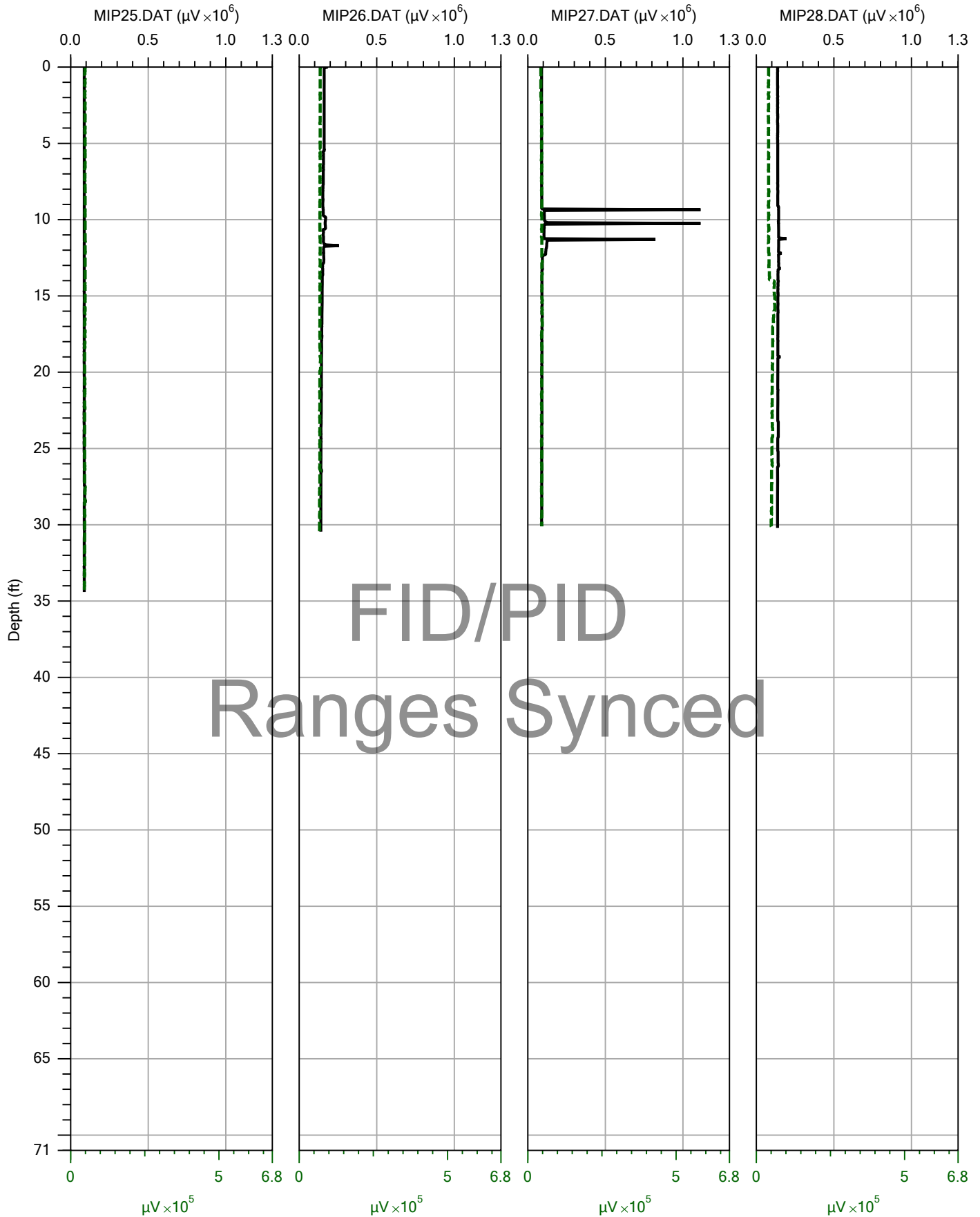


FID Max / PID Max

Company: ZEBRA
Project ID: PFIZER

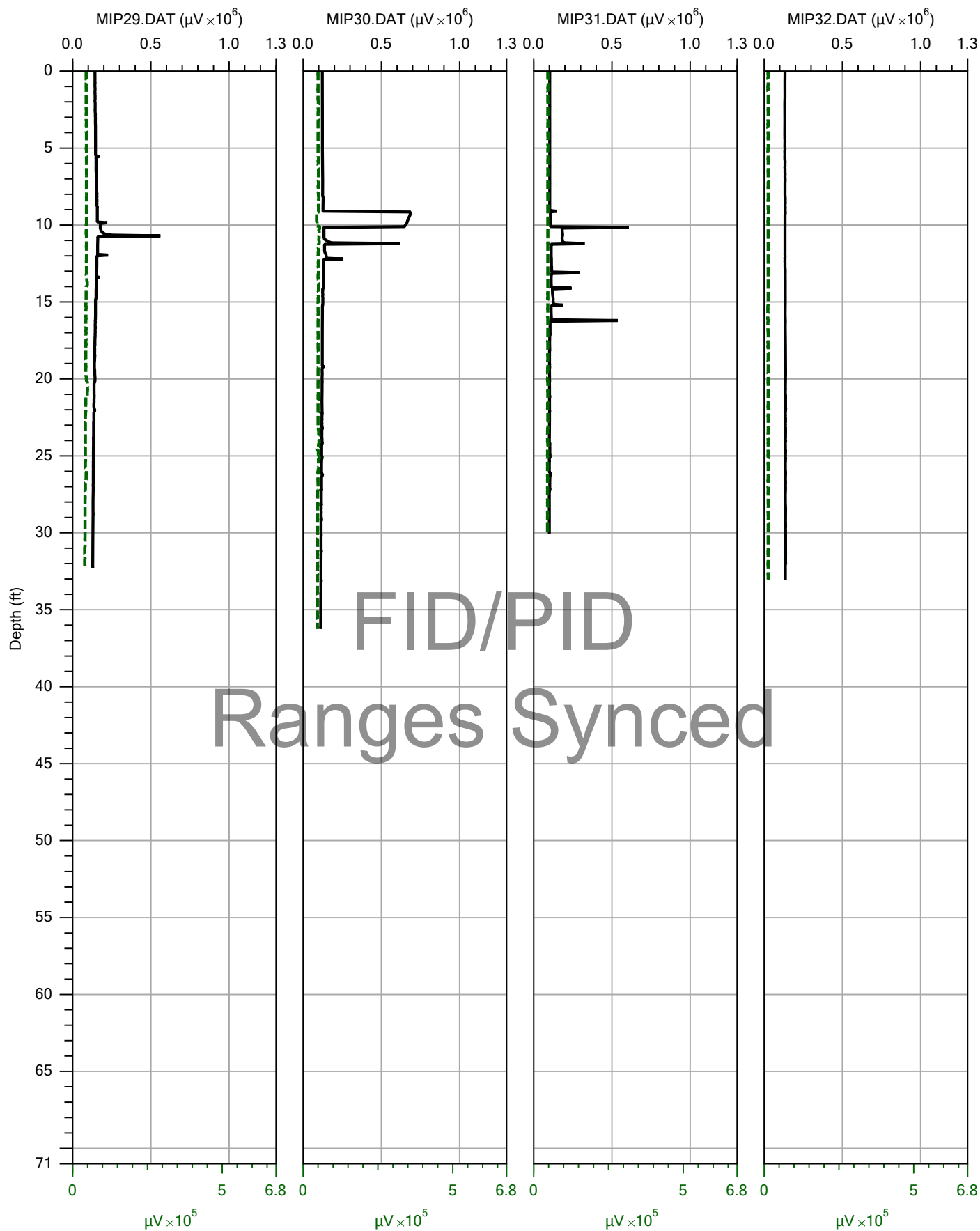
Operator: JD
Client: ROUX

MIP20.DAT	3/19/2012
MIP21.DAT	3/21/2012
MIP22.DAT	3/21/2012
MIP23.DAT	3/16/2012



FID Max / PID Max

Company:	ZEBRA	Operator:	JD
Project ID:	PFIZER	Client:	ROUX
		MIP25.DAT	3/21/2012
		MIP26.DAT	3/16/2012
		MIP27.DAT	3/21/2012
		MIP28.DAT	3/16/2012

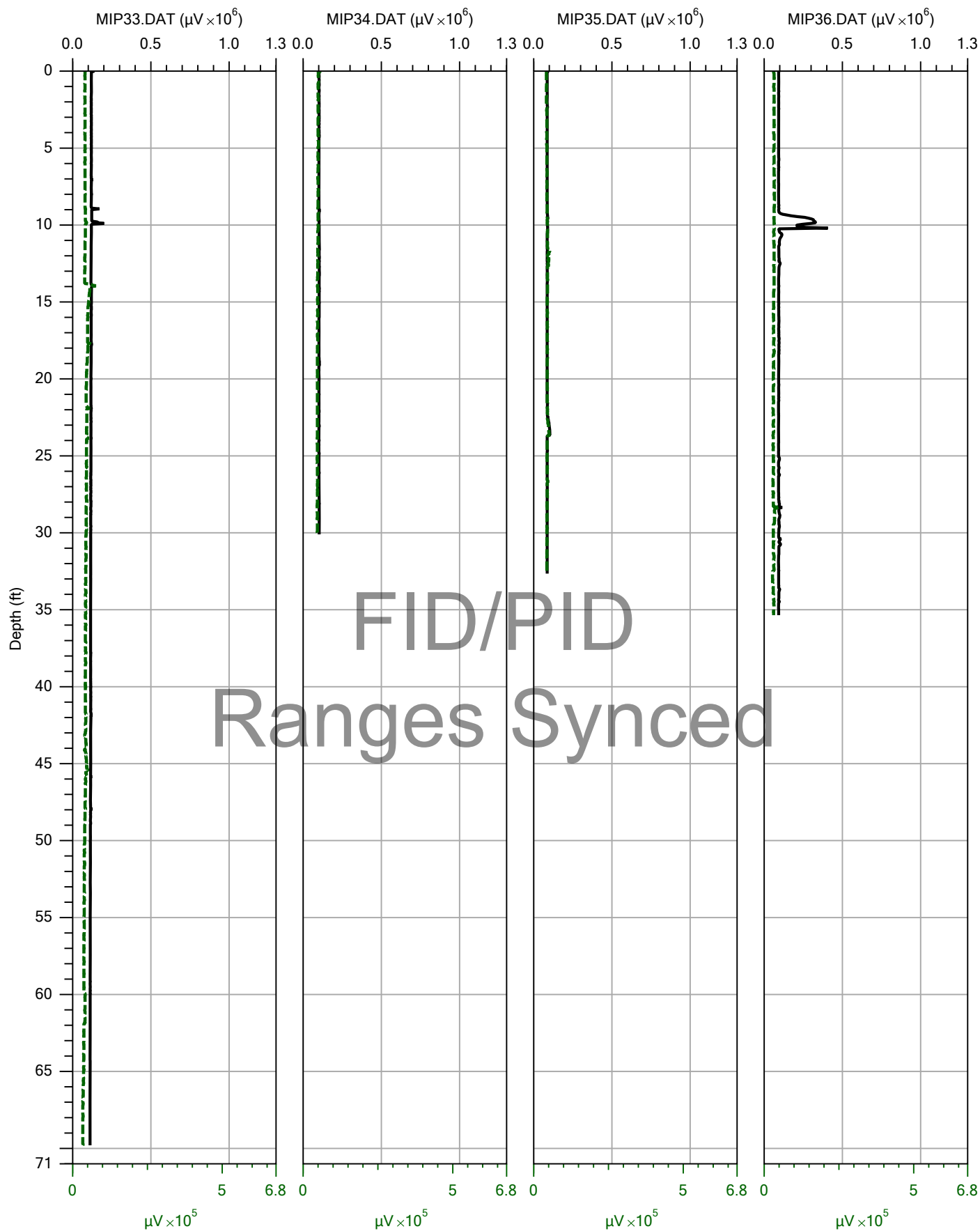


FID Max / PID Max

Company: ZEBRA
Project ID: PFIZER

Operator: JD
Client: ROUX

MIP29.DAT	3/20/2012
MIP30.DAT	3/22/2012
MIP31.DAT	3/22/2012
MIP32.DAT	3/16/2012

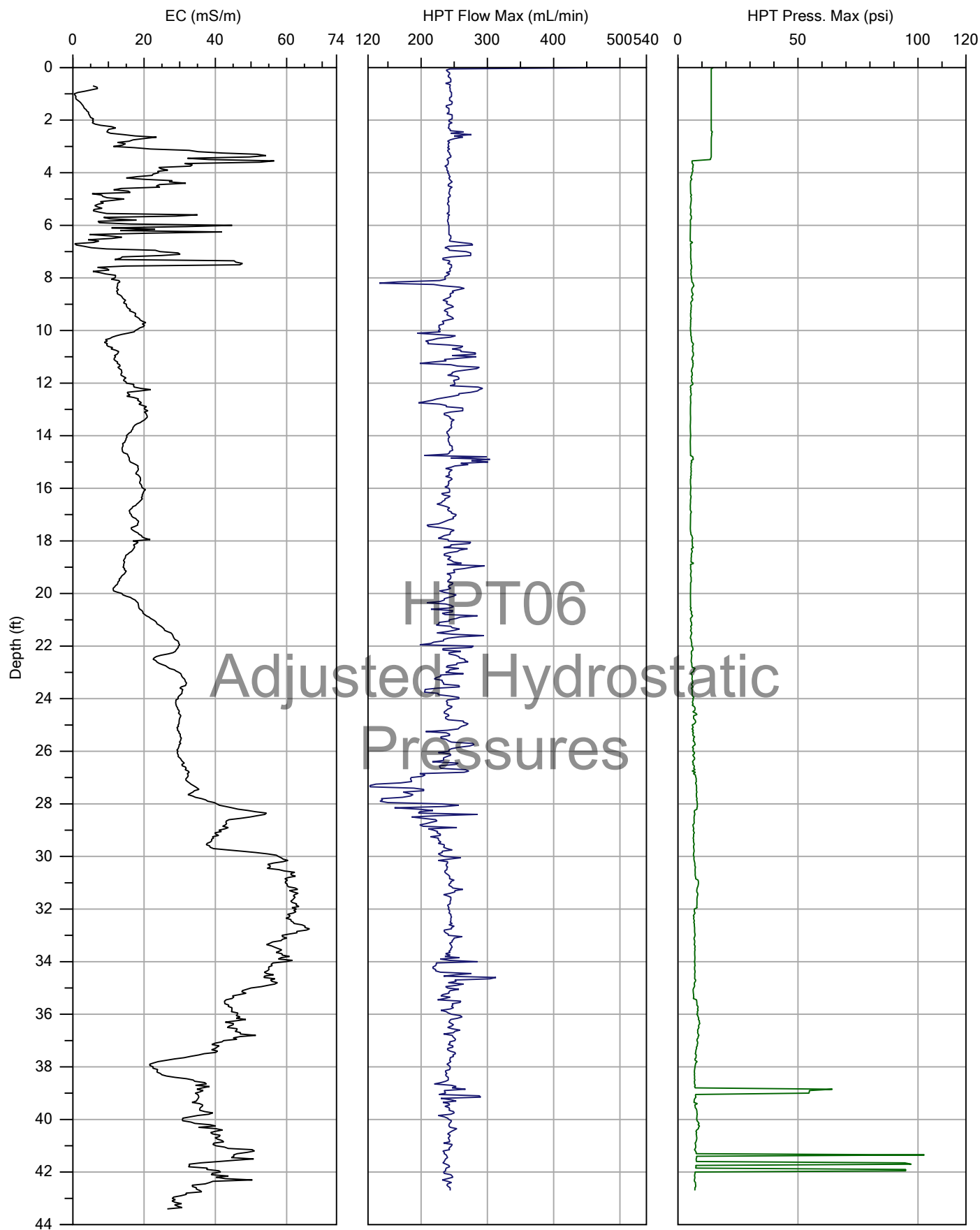


FID Max / PID Max

Company: ZEBRA
Project ID: PFIZER

Operator: JD
Client: ROUX

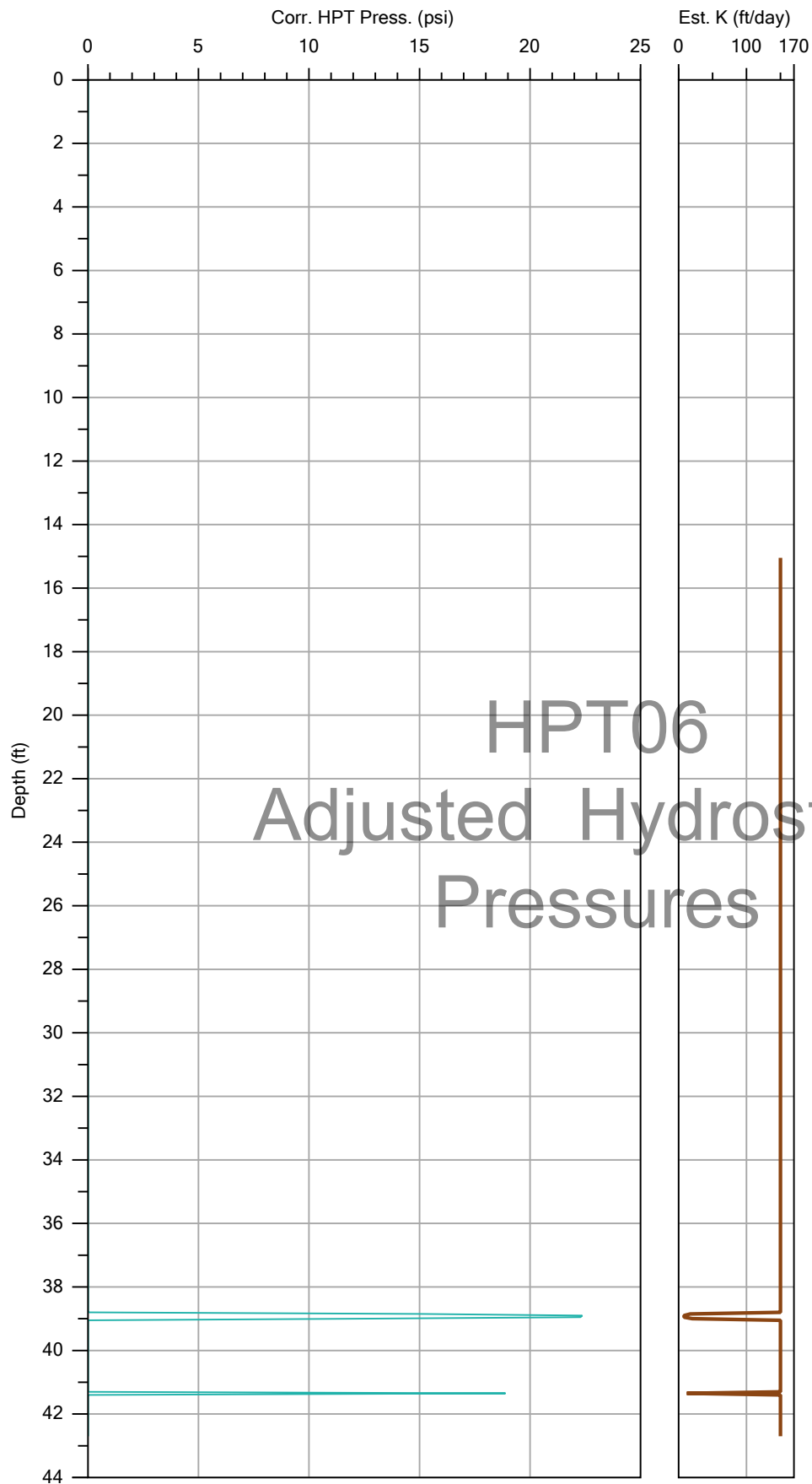
MIP33.DAT	3/20/2012
MIP34.DAT	3/20/2012
MIP35.DAT	3/21/2012
MIP36.DAT	3/14/2012



Company: ZEBRA
Project ID: Brooklyn

Operator: JD
Client: ROUX

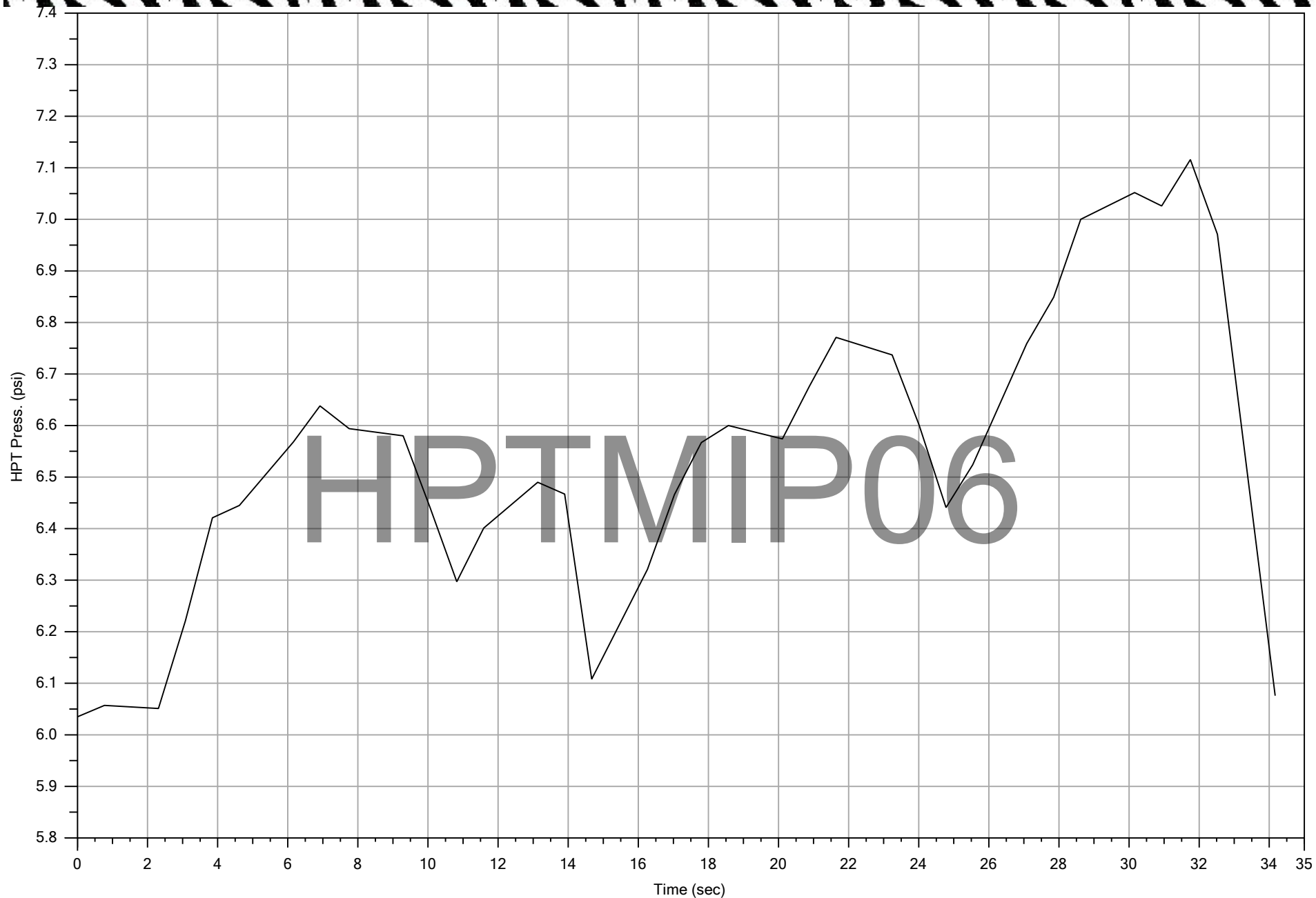
File: HPTMIP6.DAT
Date: 4/2/2012
Location:



Company: ZEBRA
Project ID: Brooklyn

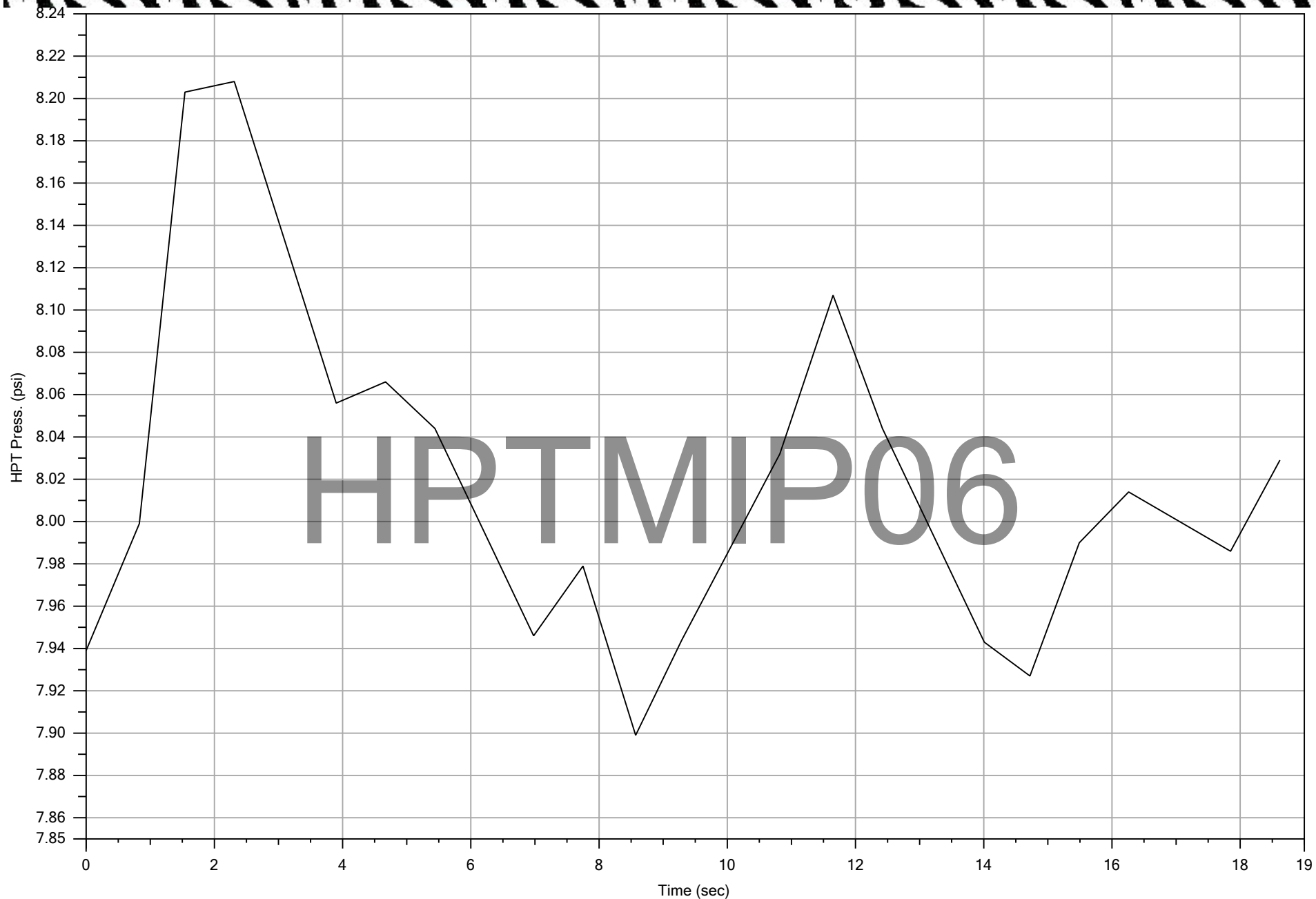
Operator: JD
Client: ROUX

File: HPTMIP6.DAT
Date: 4/2/2012
Location:



HPT DISSIPATION (SINGLE CASE)

Company:	ZEBRA	Operator:	JD	File:	HPTMIP6.DIS	Date:	4/2/2012
Project ID:	ROCKAWAY	Client:	ROUX	Location:		Sensor:	HPT Press.
				Depth:	26.80 ft	Test:	1



HPT DISSIPATION (SINGLE CASE)

Company:	ZEBRA	Operator:	JD	File:	HPTMIP6.DIS	Date:	4/2/2012
Project ID:	Brooklyn	Client:	ROUX	Location:		Sensor:	HPT Press.
				Depth:	30.90 ft	Test:	1



FILENAME: HPTMIP6.RSP
PRE-LOG RESPONSE VALUES

PRE-LOG TEST DATE: 4/2/2012
PRE-LOG TEST TIME: 8:15:29

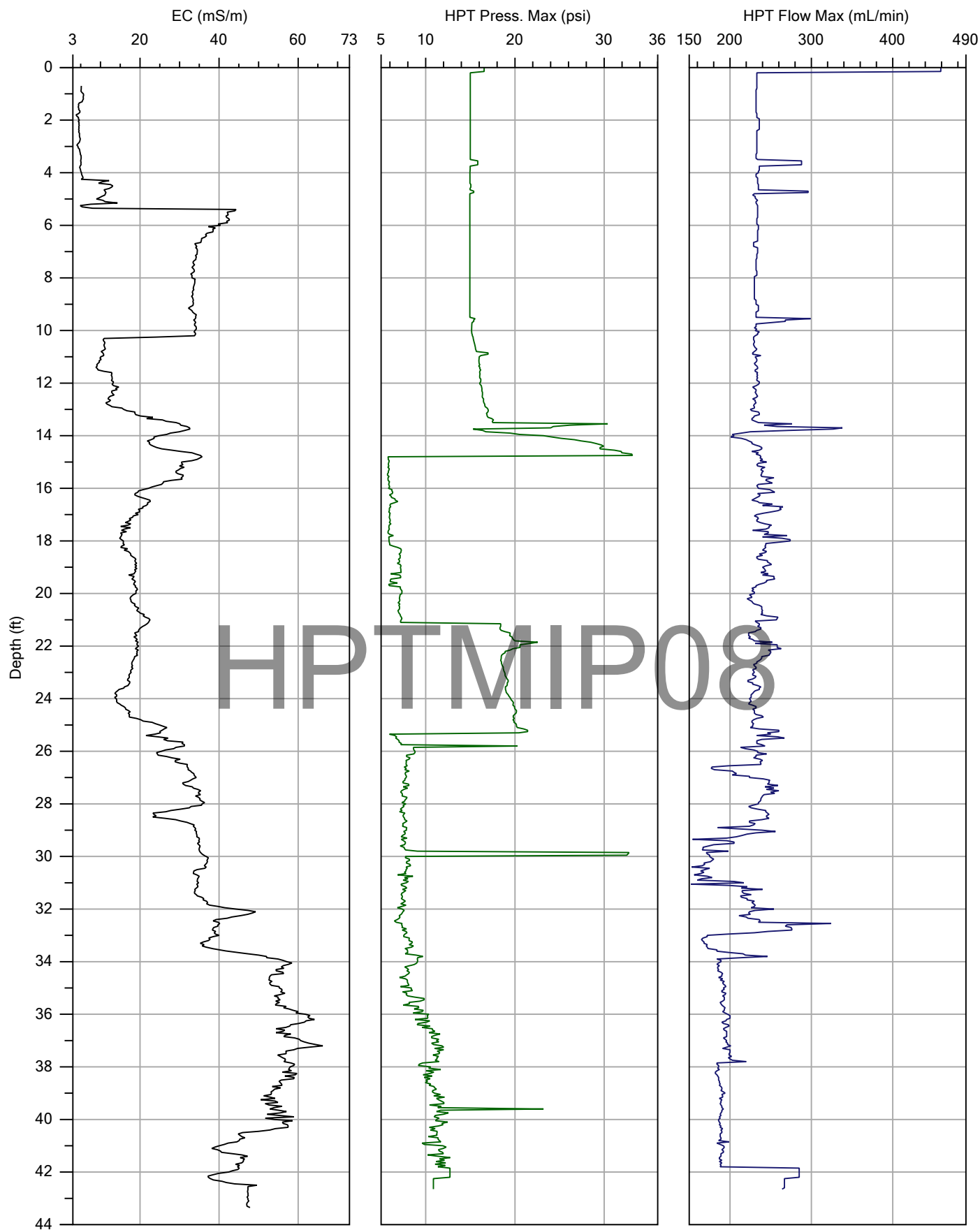
TEST	HPT PRESSURE (PSI)	FLOW (mL/Min)	HPT PRESSURE (KPA)
TOP with FLOW=0	14.045	0	96.837
TOP with FLOW>0	14.295	261	98.561
BOTTOM with FLOW=0	13.922	0	95.989
BOTTOM with FLOW>0	14.185	244	97.802

POST-LOG RESPONSE VALUES

POST-LOG TEST DATE: 4/2/2012
POST-LOG TEST TIME: 9:00:05

TEST	HPT PRESSURE (PSI)	FLOW (mL/Min)	HPT PRESSURE (KPA)
TOP with FLOW=0	15.099	0	104.104
TOP with FLOW>0	15.267	223	105.262
BOTTOM with FLOW=0	14.957	0	103.125
BOTTOM with FLOW>0	15.164	236	104.552

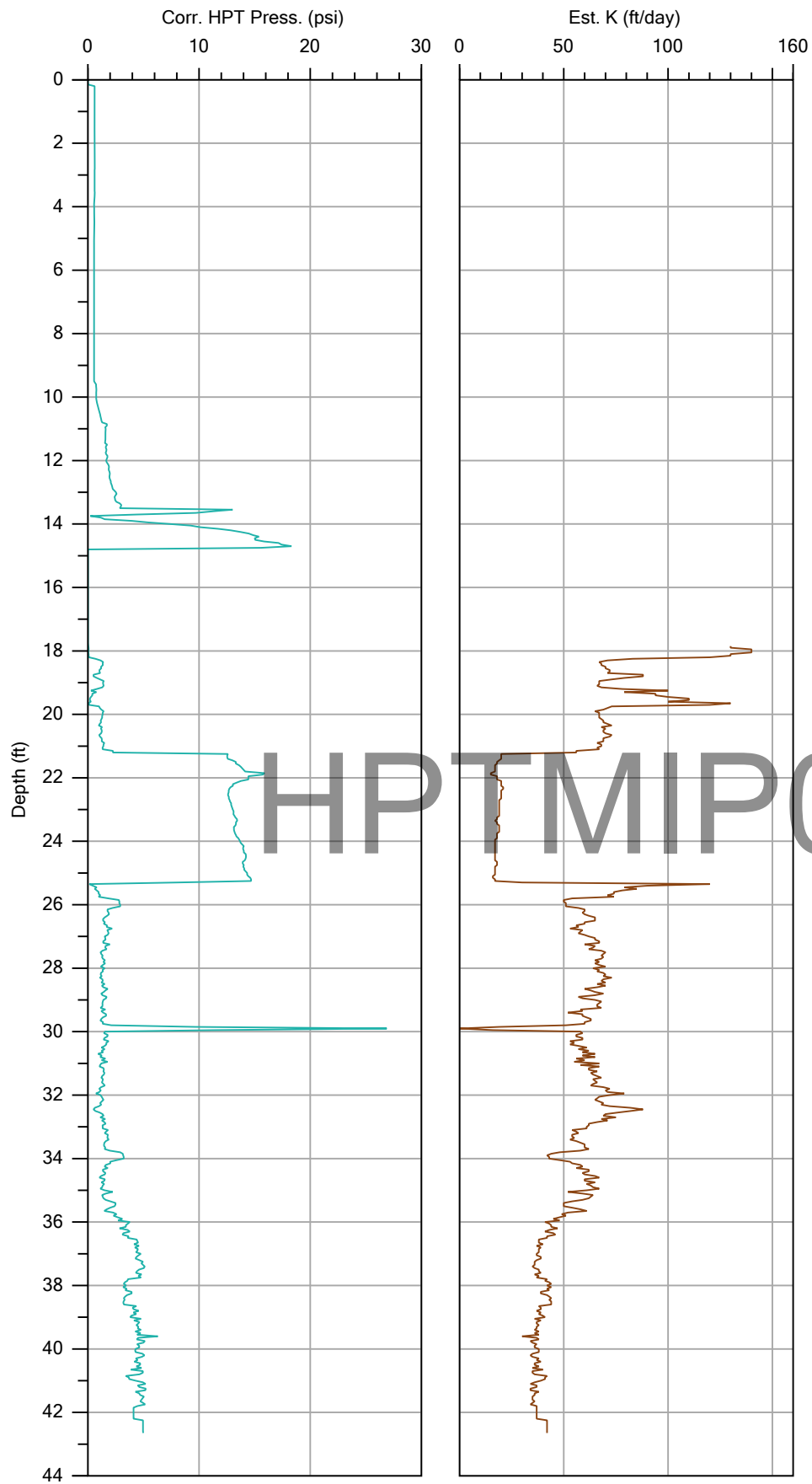
HPTMIP06



Company: ZEBRA
Project ID: Brooklyn

Operator: JD
Client: ROUX

File: HPTMIP8.DAT
Date: 4/2/2012
Location:



Company:

ZEBRA

Operator:

JD

Project ID:

Brooklyn

Client:

ROUX

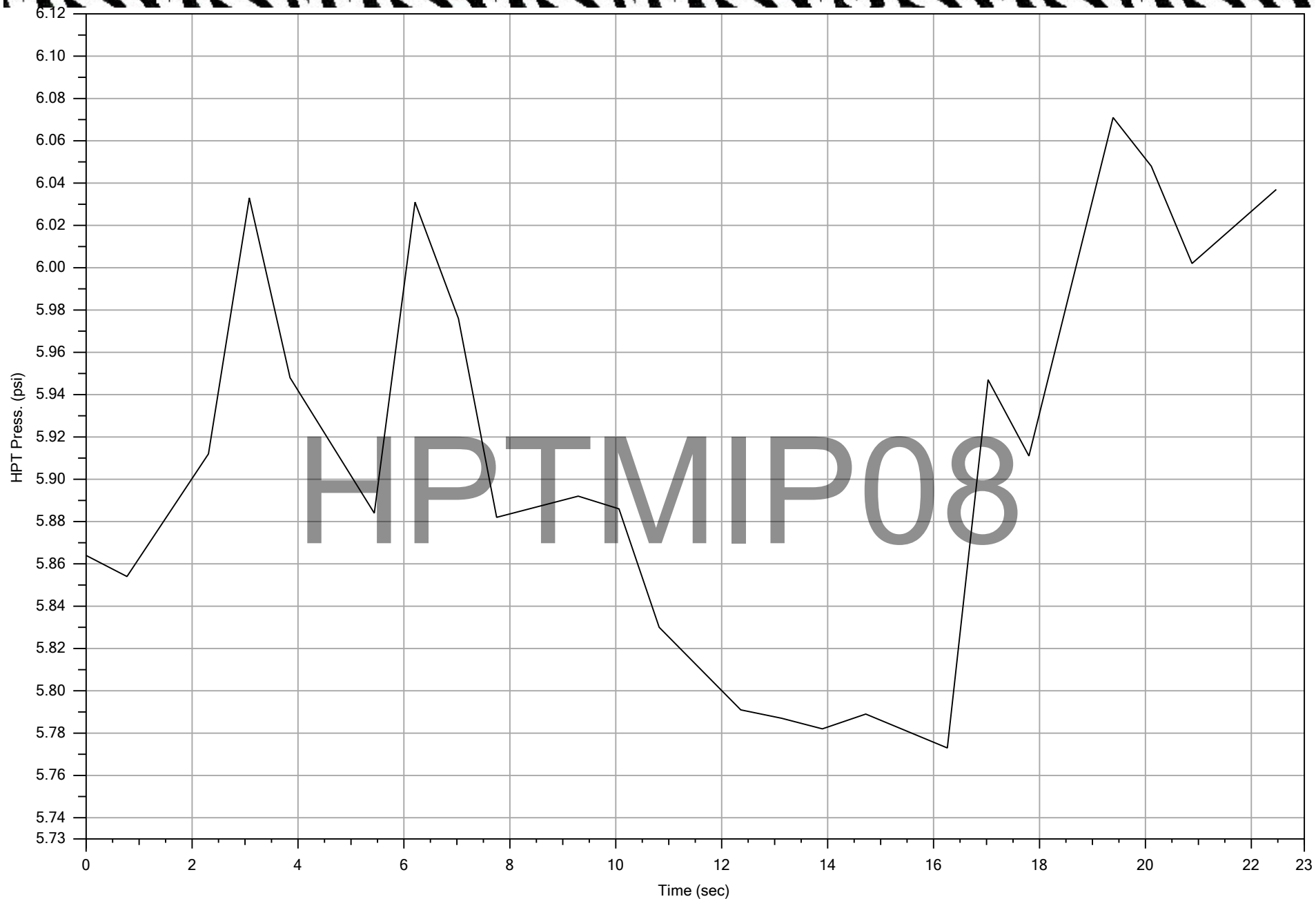
File:

HPTMIP8.DAT

Date:

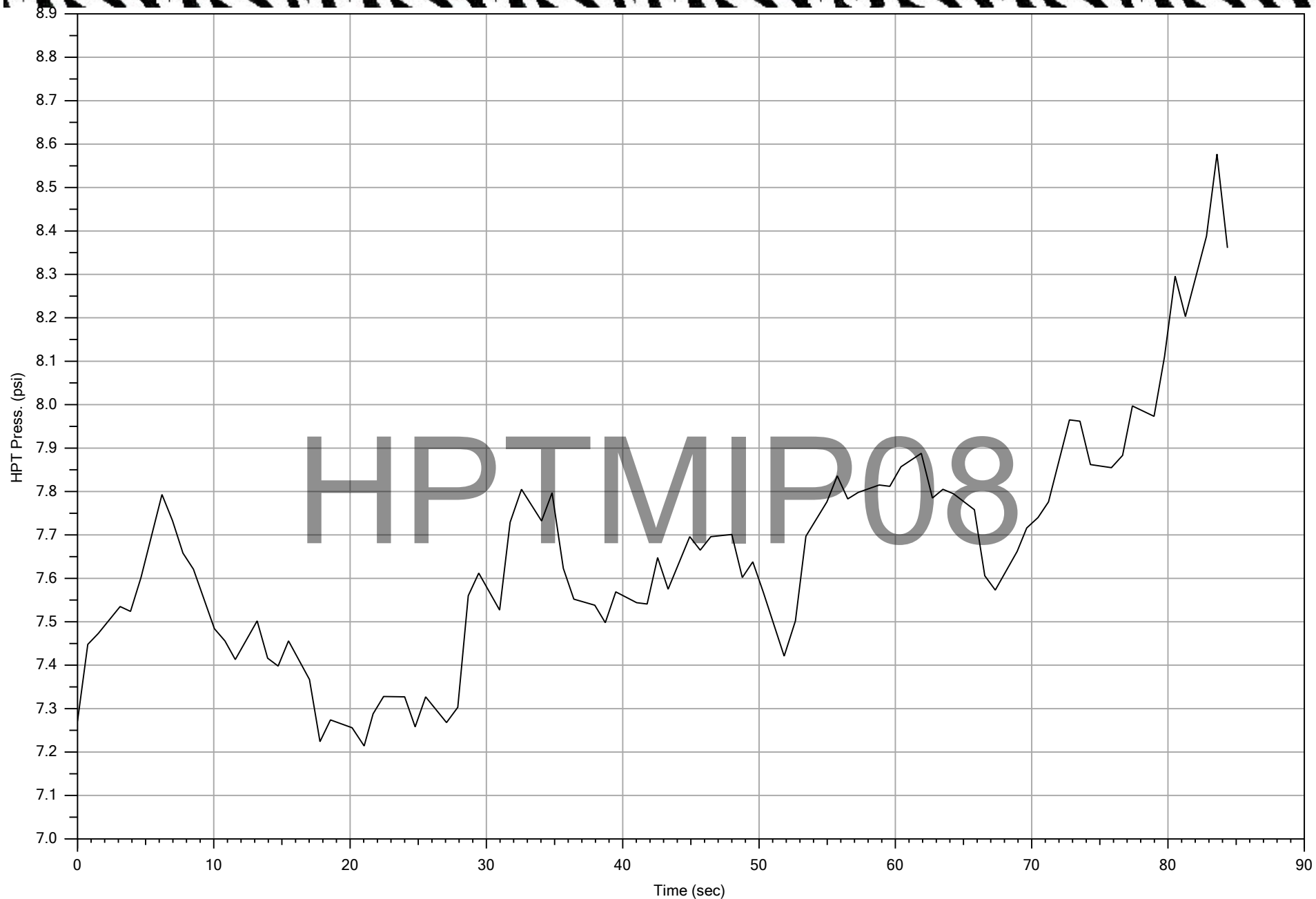
4/2/2012

Location:



HPT DISSIPATION (SINGLE CASE)

Company:	ZEBRA	Operator:	JD	File:	HPTMIP8.DIS	Date:	4/2/2012
Project ID:	ROCKAWAY	Client:	ROUX	Location:		Sensor:	HPT Press.
				Depth:	17.80 ft	Test:	1



HPT DISSIPATION (SINGLE CASE)

Company:	ZEBRA	Operator:	JD	File:	HPTMIP8.DIS	Date:	4/2/2012
Project ID:	ROCKAWAY	Client:	ROUX	Location:		Sensor:	HPT Press.
				Depth:	25.80 ft	Test:	1



HPT DISSIPATION (SINGLE CASE)

Company:	ZEBRA	Operator:	JD	File:	HPTMIP8.DIS	Date:	4/2/2012
Project ID:	ROCKAWAY	Client:	ROUX	Location:		Sensor:	HPT Press.
				Depth:	41.85 ft	Test:	1



FILENAME: HPTMIP8.RSP
PRE-LOG RESPONSE VALUES

PRE-LOG TEST DATE: 4/2/2012
PRE-LOG TEST TIME: 9:14:06

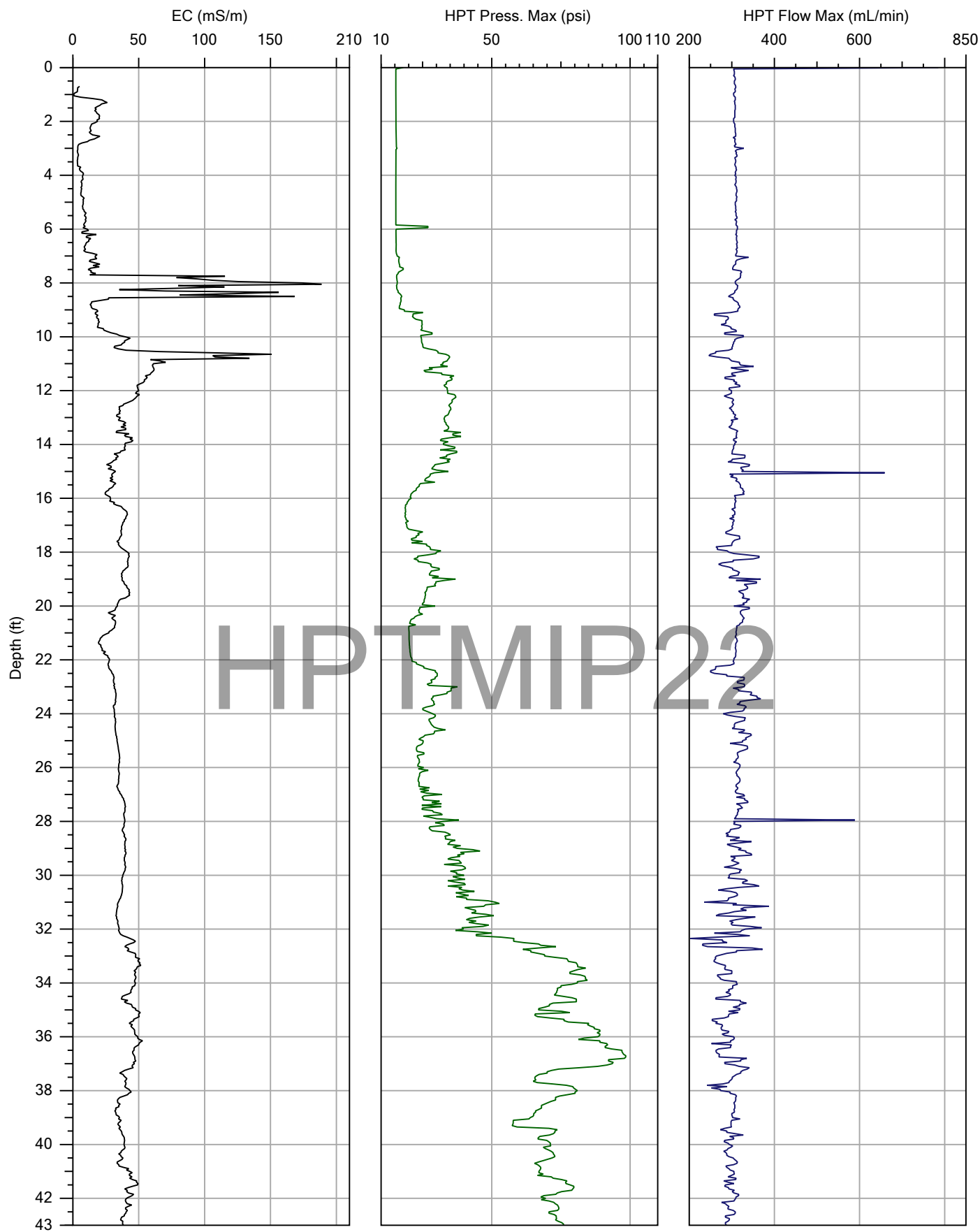
TEST	HPT PRESSURE (PSI)	FLOW (mL/Min)	HPT PRESSURE (KPA)
TOP with FLOW=0	15.130	0	104.318
TOP with FLOW>0	15.354	248	105.862
BOTTOM with FLOW=0	14.983	0	103.304
BOTTOM with FLOW>0	15.226	242	104.980

POST-LOG RESPONSE VALUES

POST-LOG TEST DATE: 4/2/2012
POST-LOG TEST TIME: 10:07:25

TEST	HPT PRESSURE (PSI)	FLOW (mL/Min)	HPT PRESSURE (KPA)
TOP with FLOW=0	14.500	0	99.974
TOP with FLOW>0	14.873	249	102.546
BOTTOM with FLOW=0	14.727	0	101.539
BOTTOM with FLOW>0	14.810	253	102.111

HPTMIP08



Company:

ZEBRA

Operator:

JD

Project ID:

BROOKLYN

Client:

ROUX

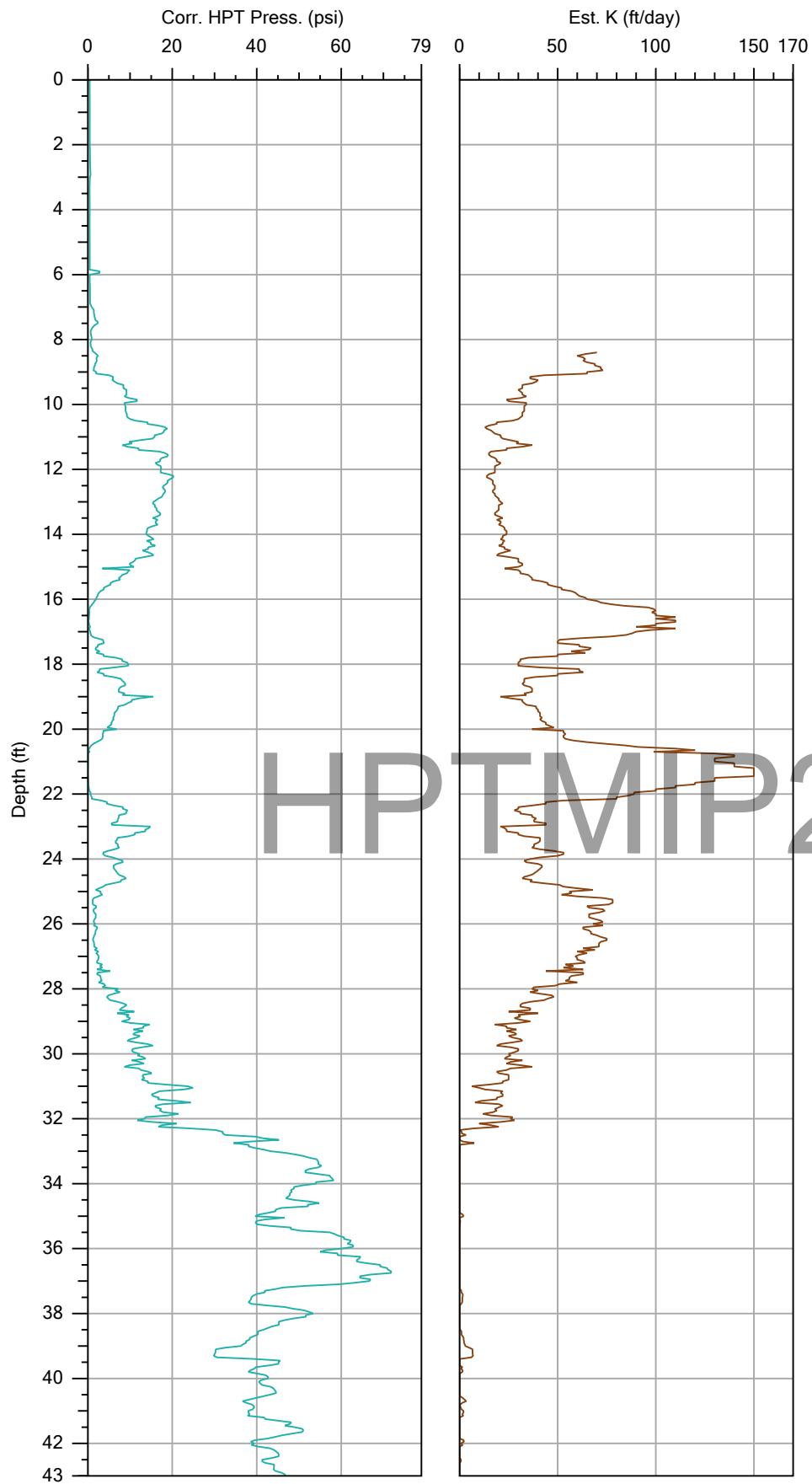
File:

HPTMIP22.DAT

Date:

4/6/2012

Location:



Company:

ZEBRA

Operator:

JD

Project ID:

BROOKLYN

Client:

ROUX

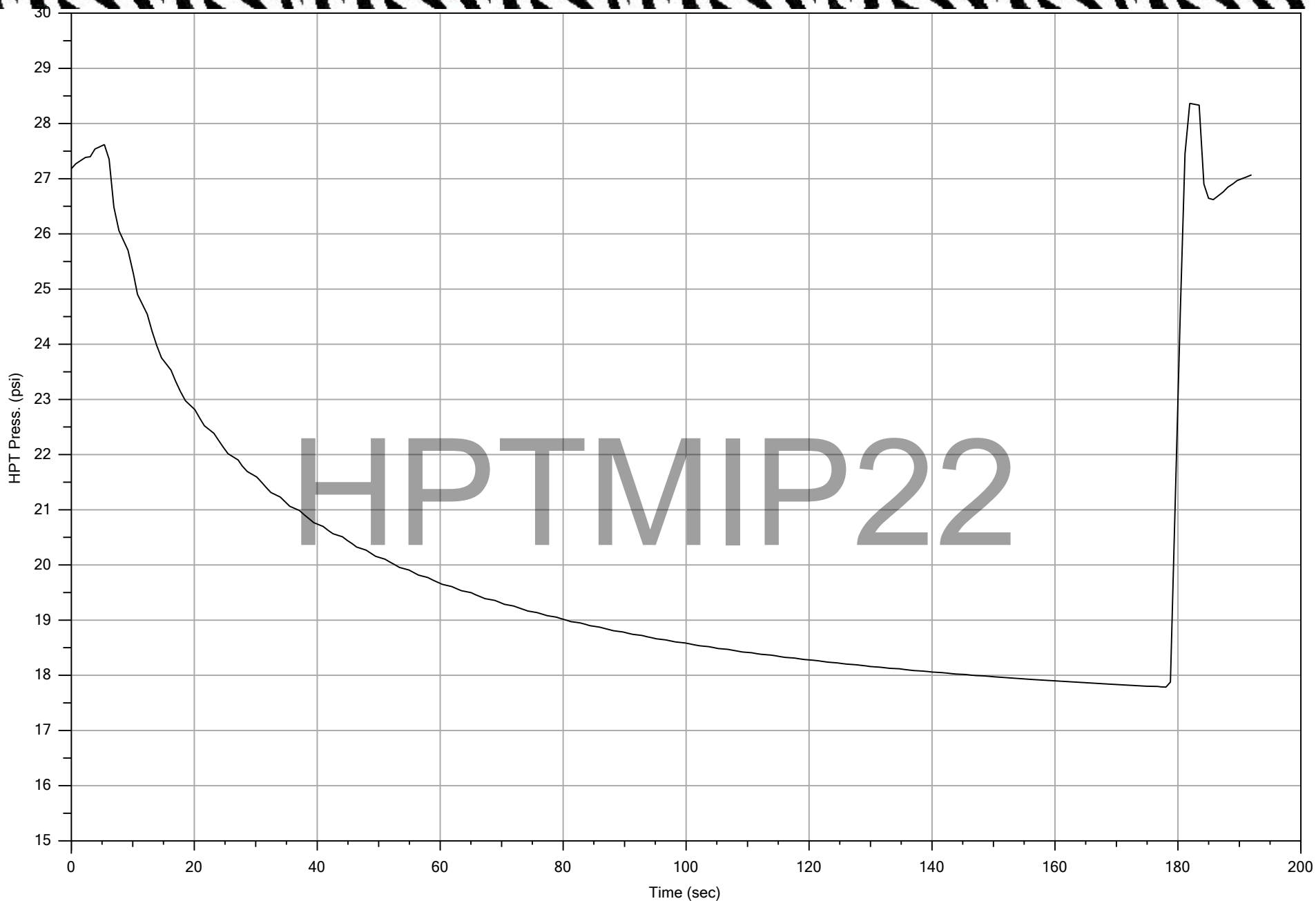
File:

HPTMIP22.DAT

Date:

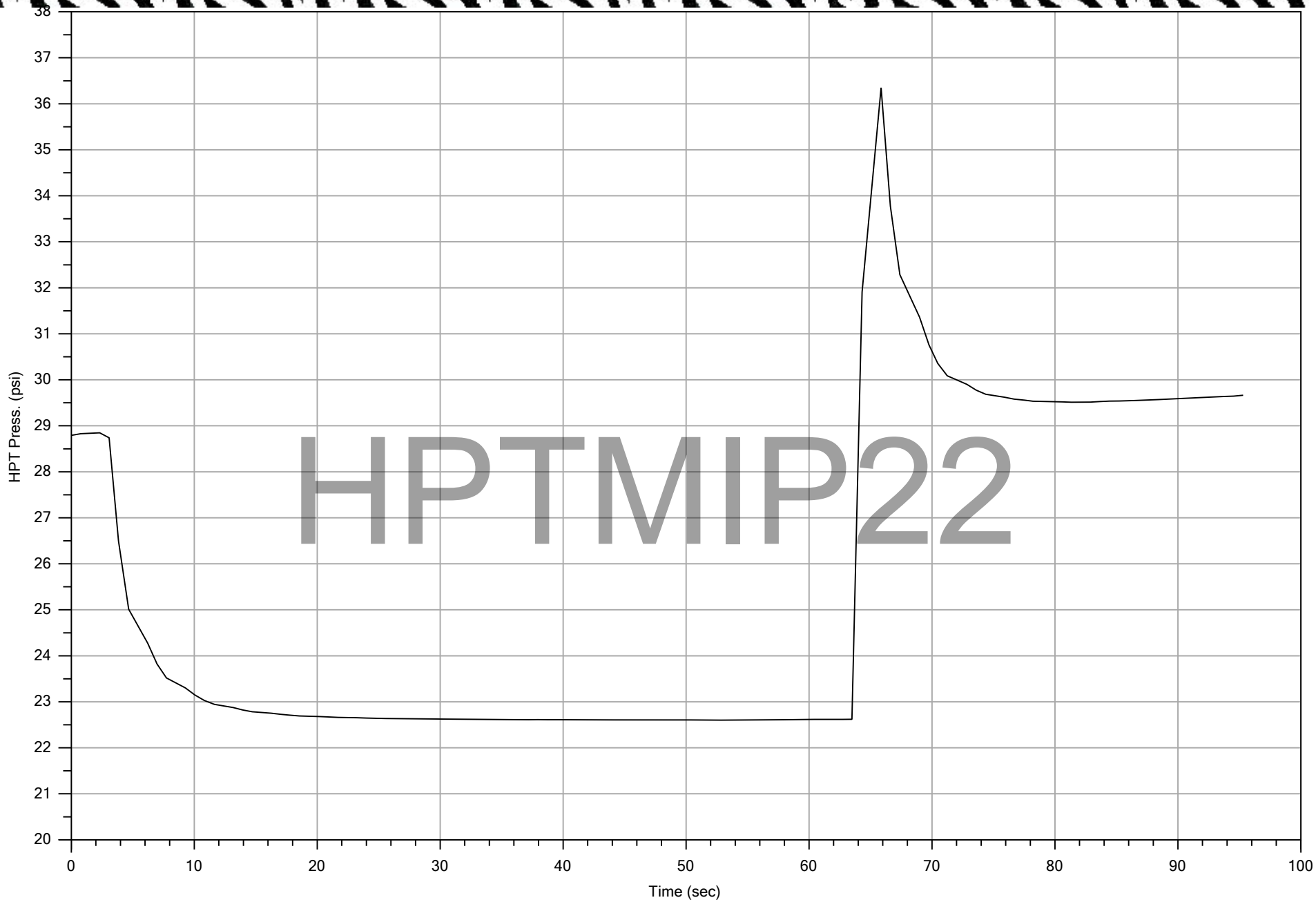
4/6/2012

Location:



HPT DISSIPATION (SINGLE CASE)

Company:	ZEBRA	Operator:	JD	File:	HPTMIP22.DIS	Date:	4/6/2012
Project ID:	BROOKLYN	Client:	ROUX	Location:		Sensor:	HPT Press.
				Depth:	15.05 ft	Test:	1



HPT DISSIPATION (SINGLE CASE)

Company: ZEBRA		File: HPTMIP22.DIS		Date: 4/6/2012
Operator: JD		Location:		Sensor: HPT Press.
Project ID: BROOKLYN		Client: ROUX		Depth: 27.95 ft
				Test: 1



FILENAME: HPTMIP22.RSP
PRE-LOG RESPONSE VALUES

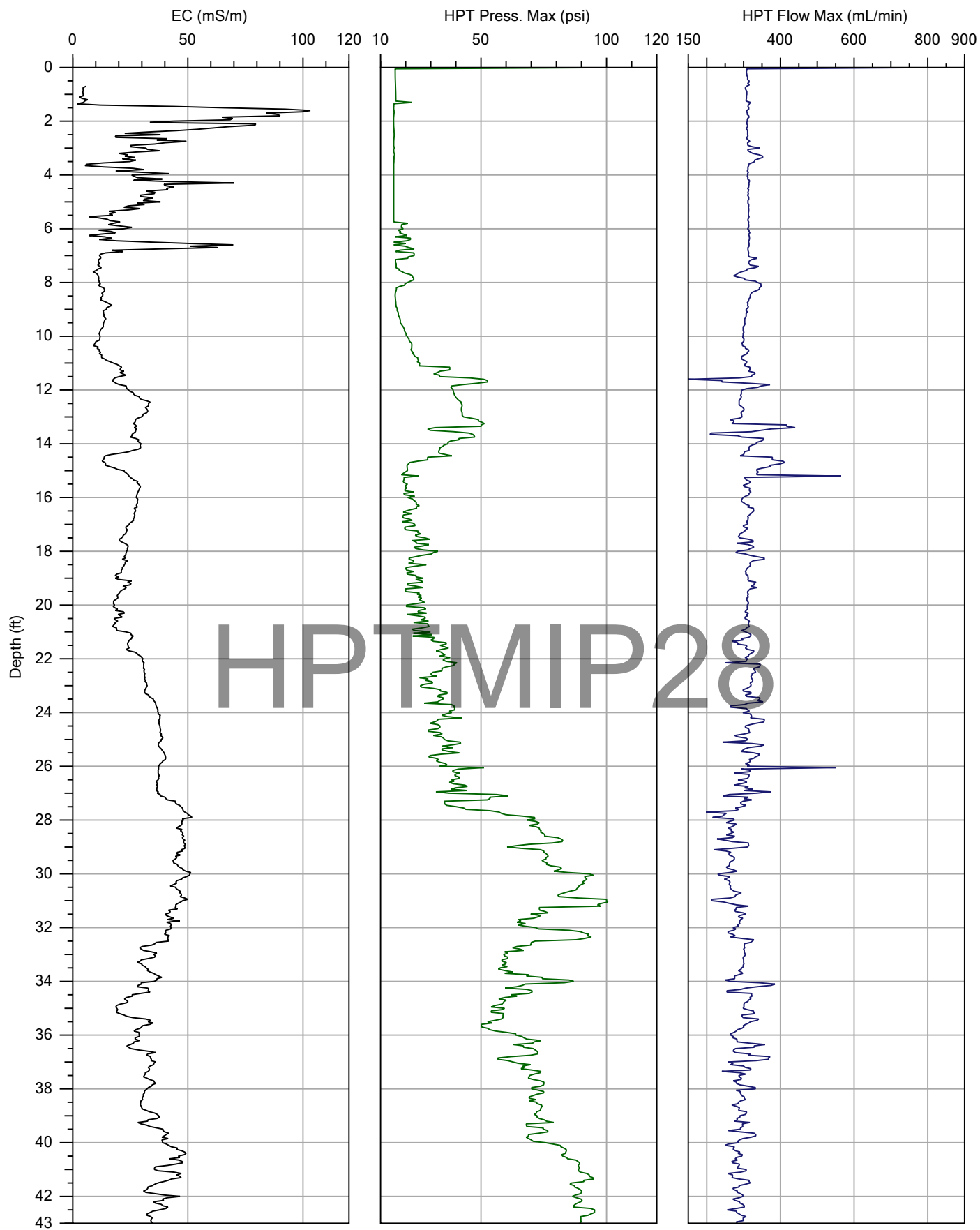
PRE-LOG TEST DATE: 4/6/2012
PRE-LOG TEST TIME: 8:41:24

TEST	HPT PRESSURE (PSI)	FLOW (mL/Min)	HPT PRESSURE (KPA)
TOP with FLOW=0	15.345	0	105.800
TOP with FLOW>0	15.664	302	107.999
BOTTOM with FLOW=0	15.204	0	104.828
BOTTOM with FLOW>0	15.545	302	107.179

POST-LOG TEST DATE: 4/6/2012
POST-LOG TEST TIME: 9:16:35

TEST	HPT PRESSURE (PSI)	FLOW (mL/Min)	HPT PRESSURE (KPA)
TOP with FLOW=0	15.345	0	105.800
TOP with FLOW>0	15.664	302	107.999
BOTTOM with FLOW=0	15.204	0	104.828
BOTTOM with FLOW>0	15.545	302	107.179

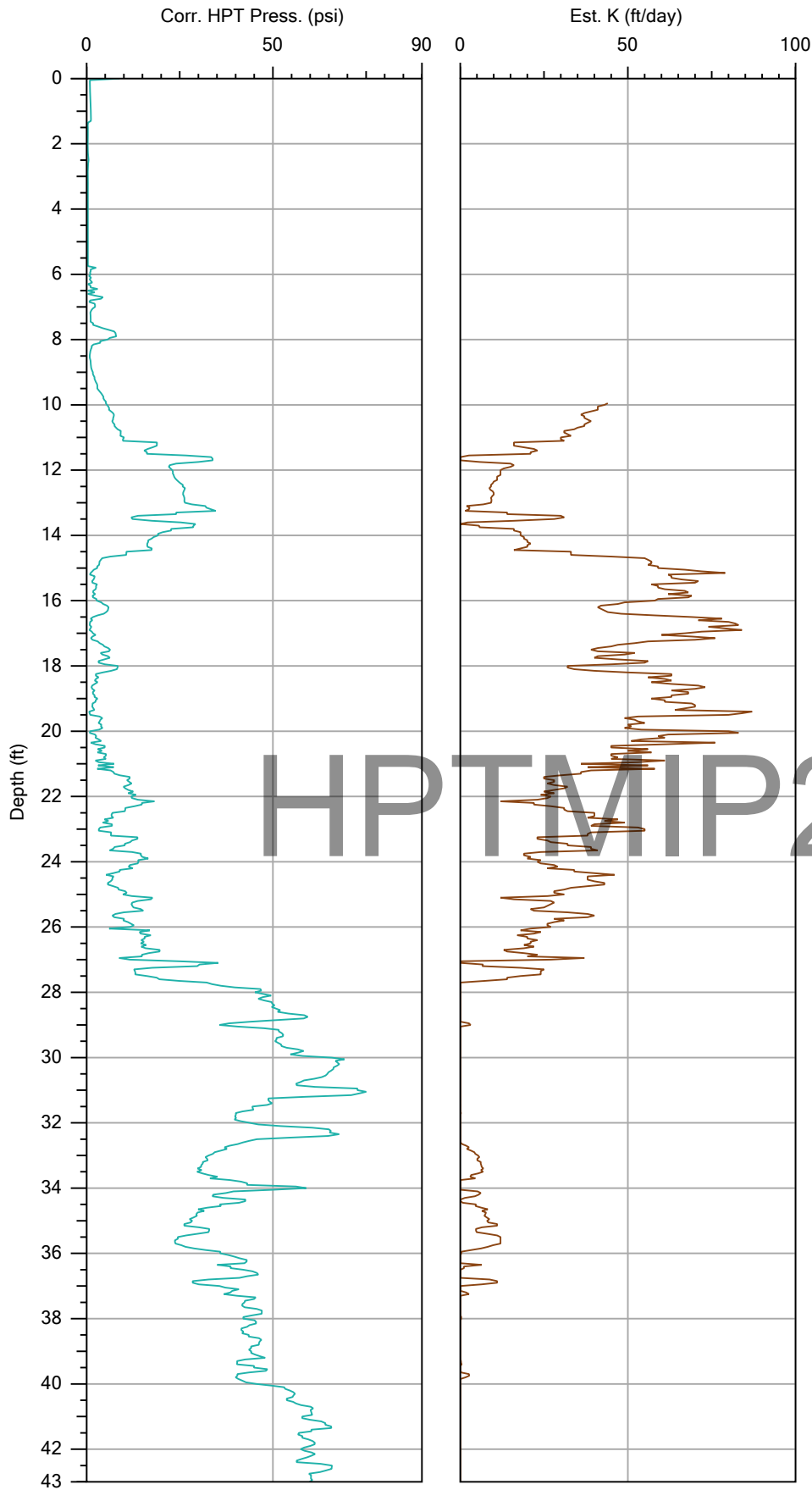
HPTMIP22



Company: ZEBRA
Project ID: BROOKLYN

Operator: JD
Client: ROUX

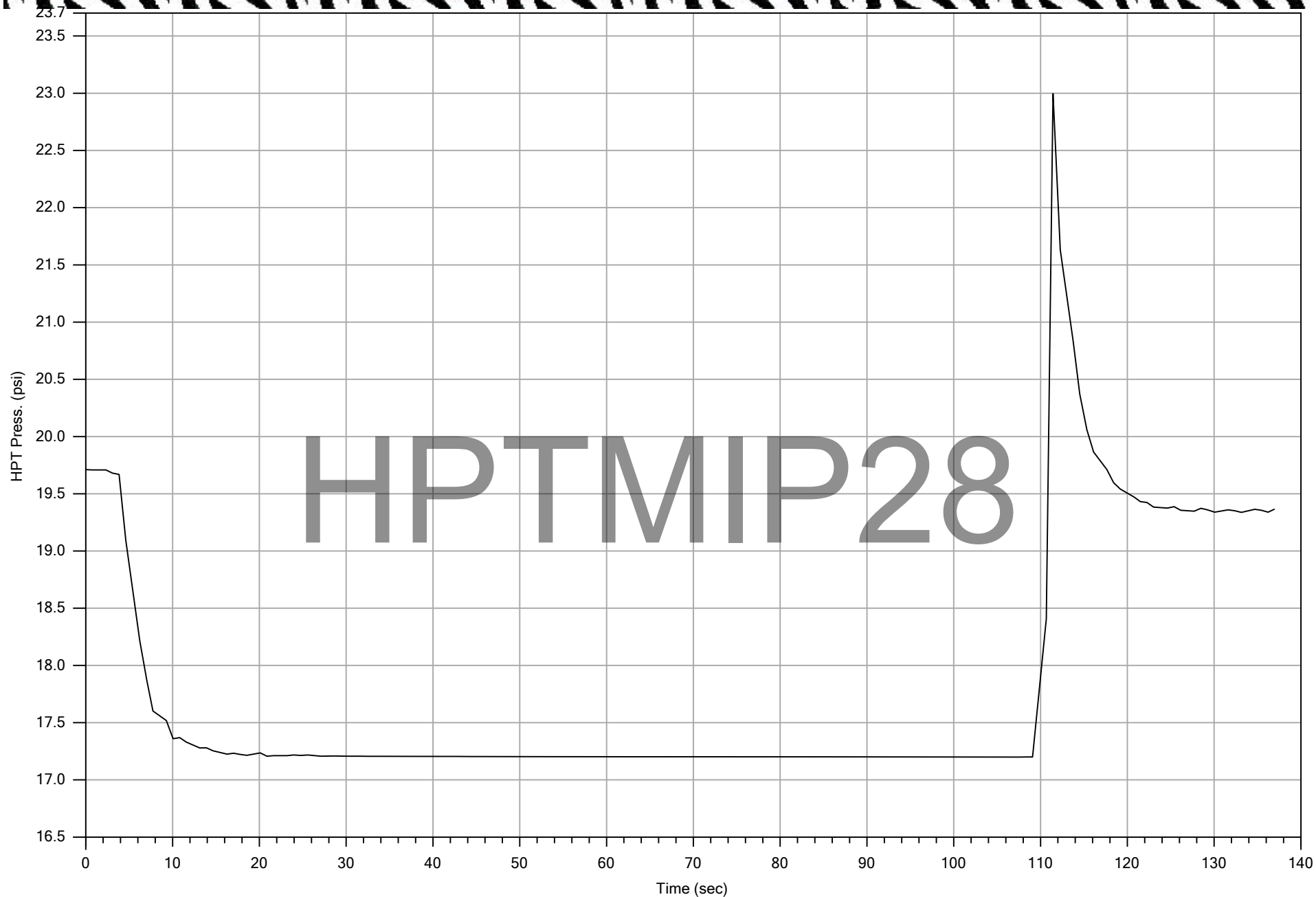
File: HPTMIP28.DAT
Date: 4/6/2012
Location:



Company:	ZEBRA
Project ID:	BROOKLYN

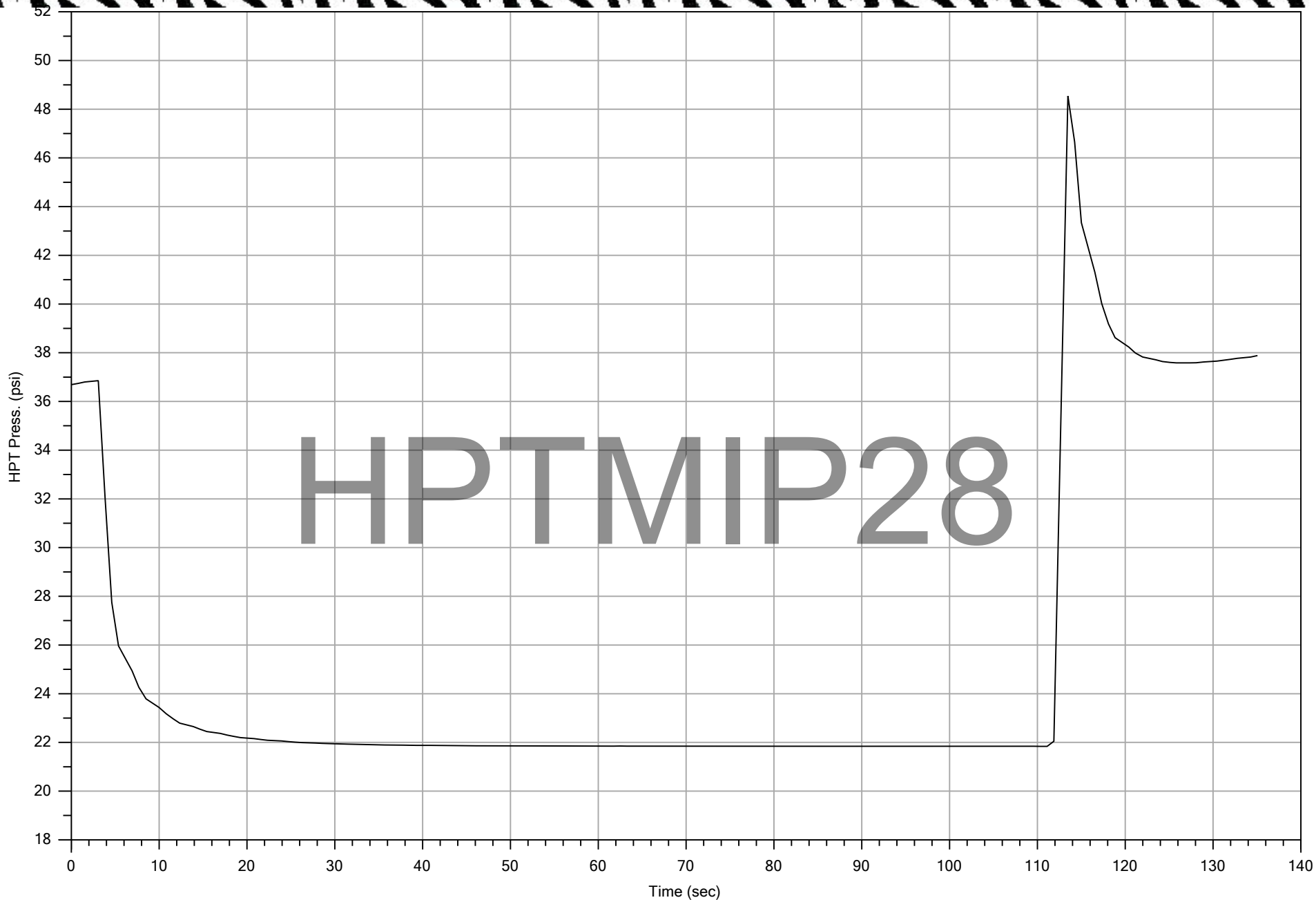
Operator:	JD
Client:	ROUX

File:	HPTMIP28.DAT
Date:	4/6/2012
Location:	



HPT DISSIPATION (SINGLE CASE)

Company: ZEBRA		File: HPTMIP28.DIS		Date: 4/6/2012	
Operator: JD		Location:		Sensor: HPT Press.	
Project ID: BROOKLYN		Client: ROUX		Depth: 15.20 ft	
				Test: 1	



HPT DISSIPATION (SINGLE CASE)

Company: ZEBRA		File: HPTMIP28.DIS	Date: 4/6/2012
Operator: JD		Location:	Sensor: HPT Press.
Project ID: BROOKLYN		Depth: 26.05 ft	Test: 1
Client: ROUX			



FILENAME: HPTMIP28.RSP
PRE-LOG RESPONSE VALUES

PRE-LOG TEST DATE: 4/6/2012
PRE-LOG TEST TIME: 9:57:43

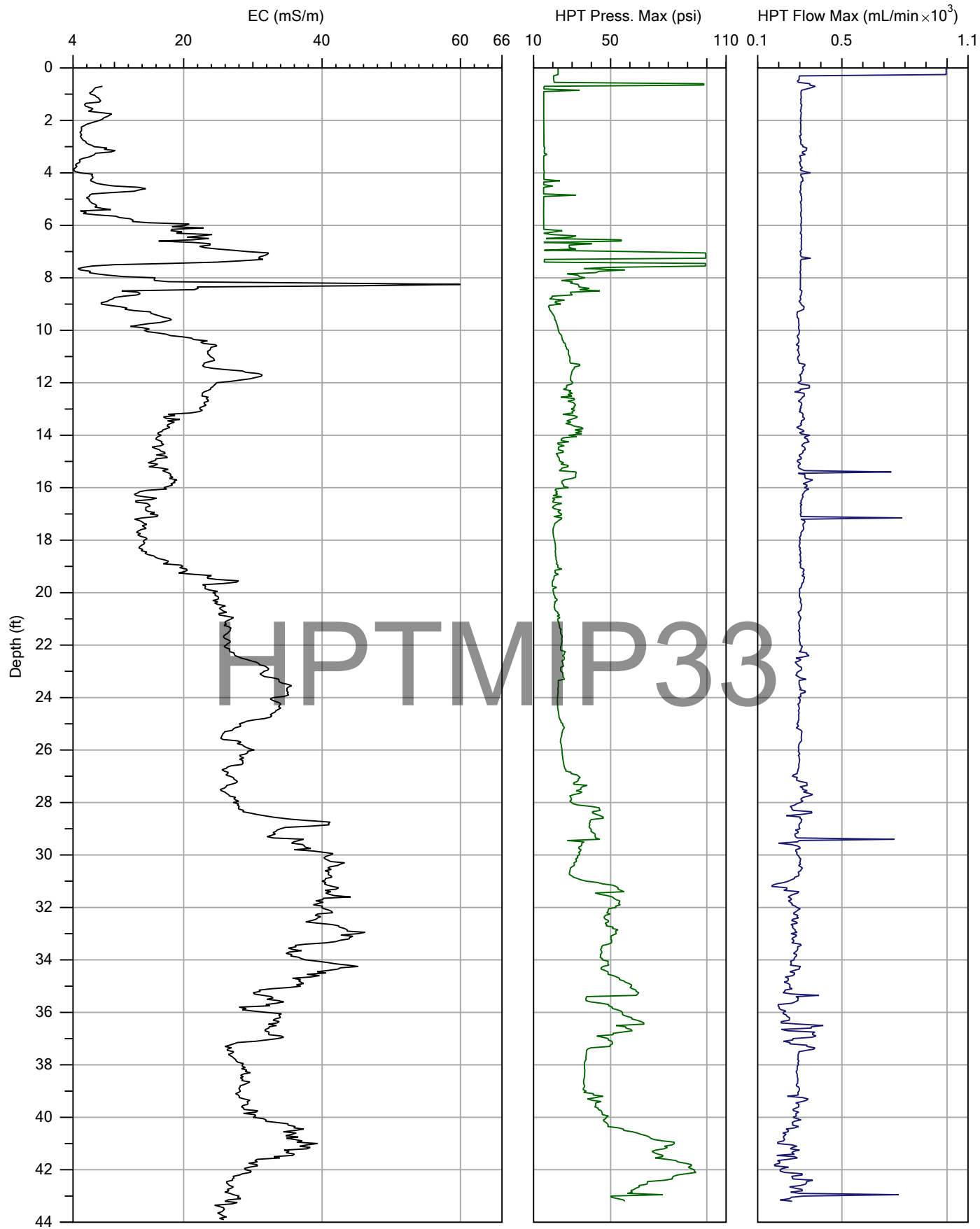
TEST	HPT PRESSURE (PSI)	FLOW (mL/Min)	HPT PRESSURE (KPA)
TOP with FLOW=0	15.354	0	105.862
TOP with FLOW>0	15.770	307	108.730
BOTTOM with FLOW=0	15.212	0	104.883
BOTTOM with FLOW>0	15.755	305	108.627

POST-LOG RESPONSE VALUES

POST-LOG TEST DATE: 4/6/2012
POST-LOG TEST TIME: 10:41:22

TEST	HPT PRESSURE (PSI)	FLOW (mL/Min)	HPT PRESSURE (KPA)
TOP with FLOW=0	15.354	0	105.862
TOP with FLOW>0	15.770	307	108.730
BOTTOM with FLOW=0	15.212	0	104.883
BOTTOM with FLOW>0	15.755	305	108.627

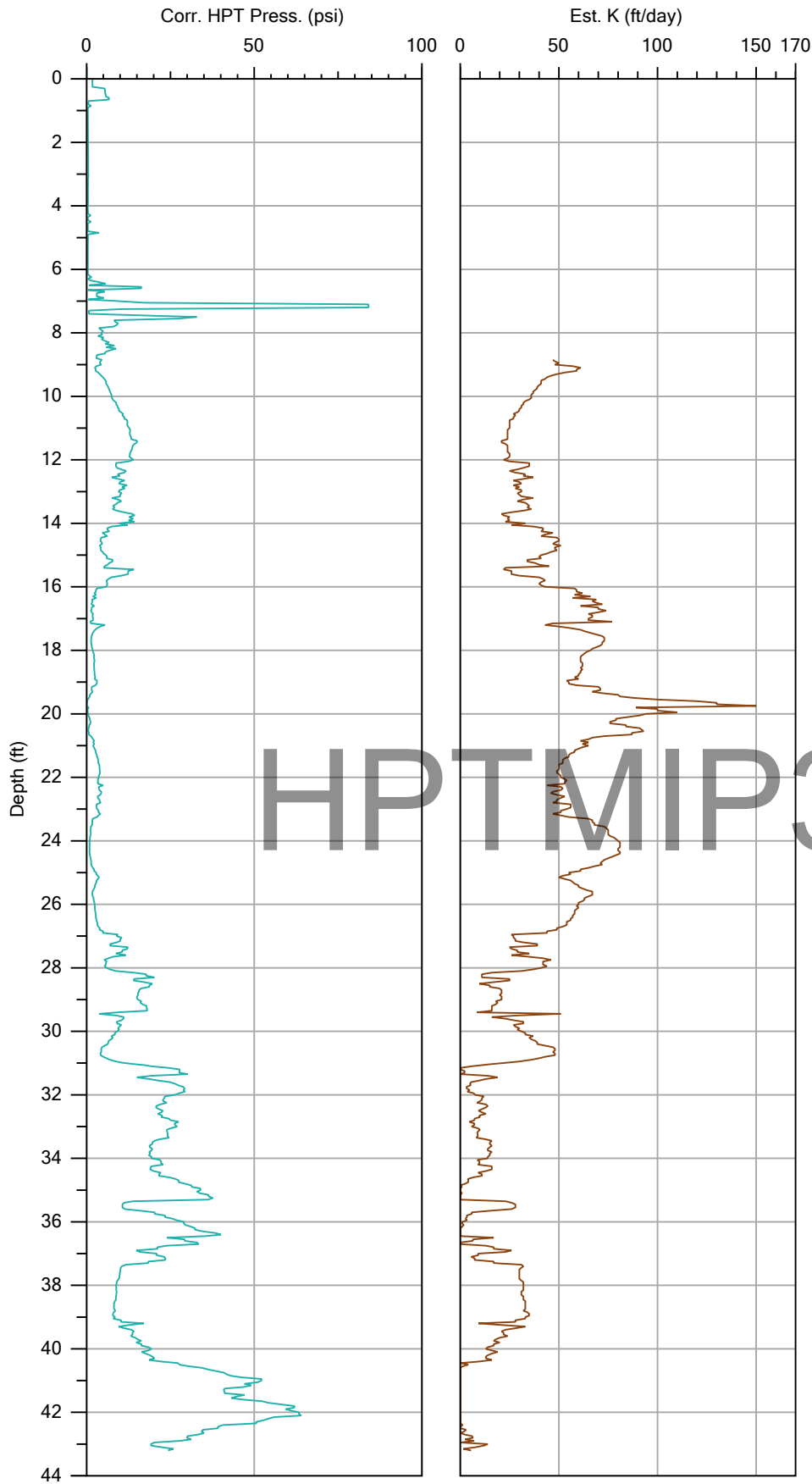
HPTMIP28



Company: ZEBRA
Project ID: BROOKLYN

Operator: JD
Client: ROUX

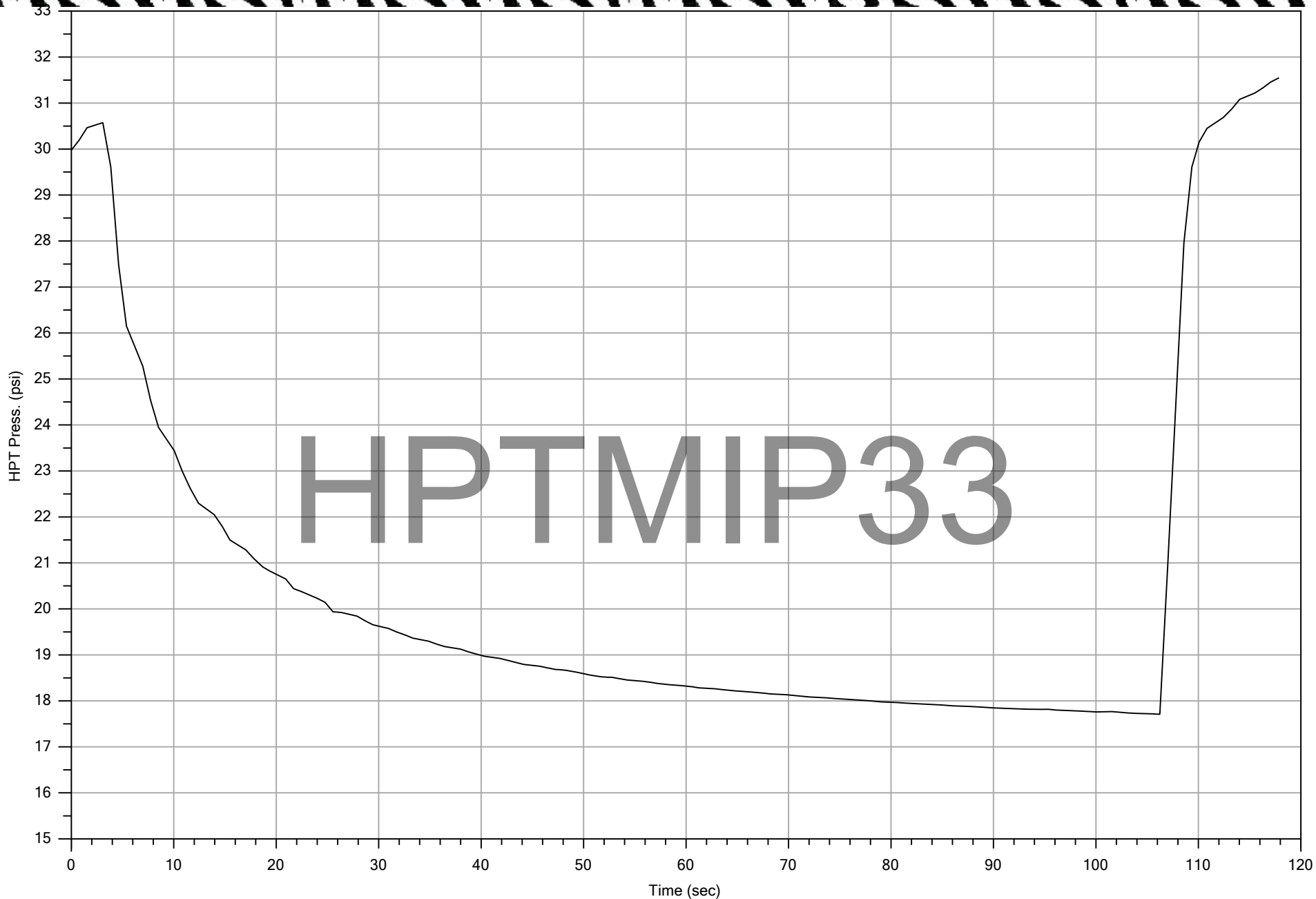
File: HPTMIP33.DAT
Date: 4/6/2012
Location:



Company:	ZEBRA
Project ID:	BROOKLYN

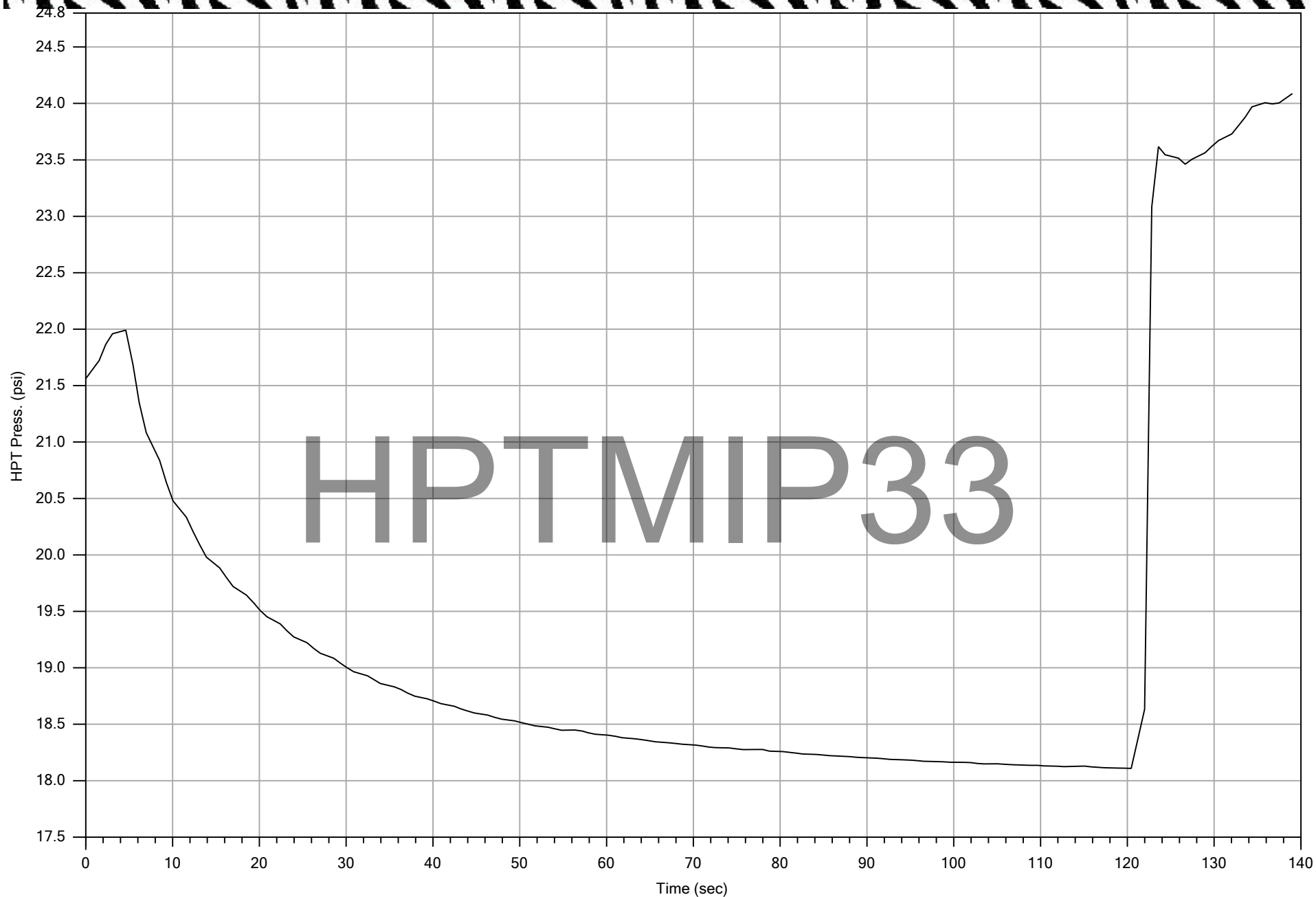
Operator:	JD
Client:	ROUX

File:	HPTMIP33.DAT
Date:	4/6/2012
Location:	



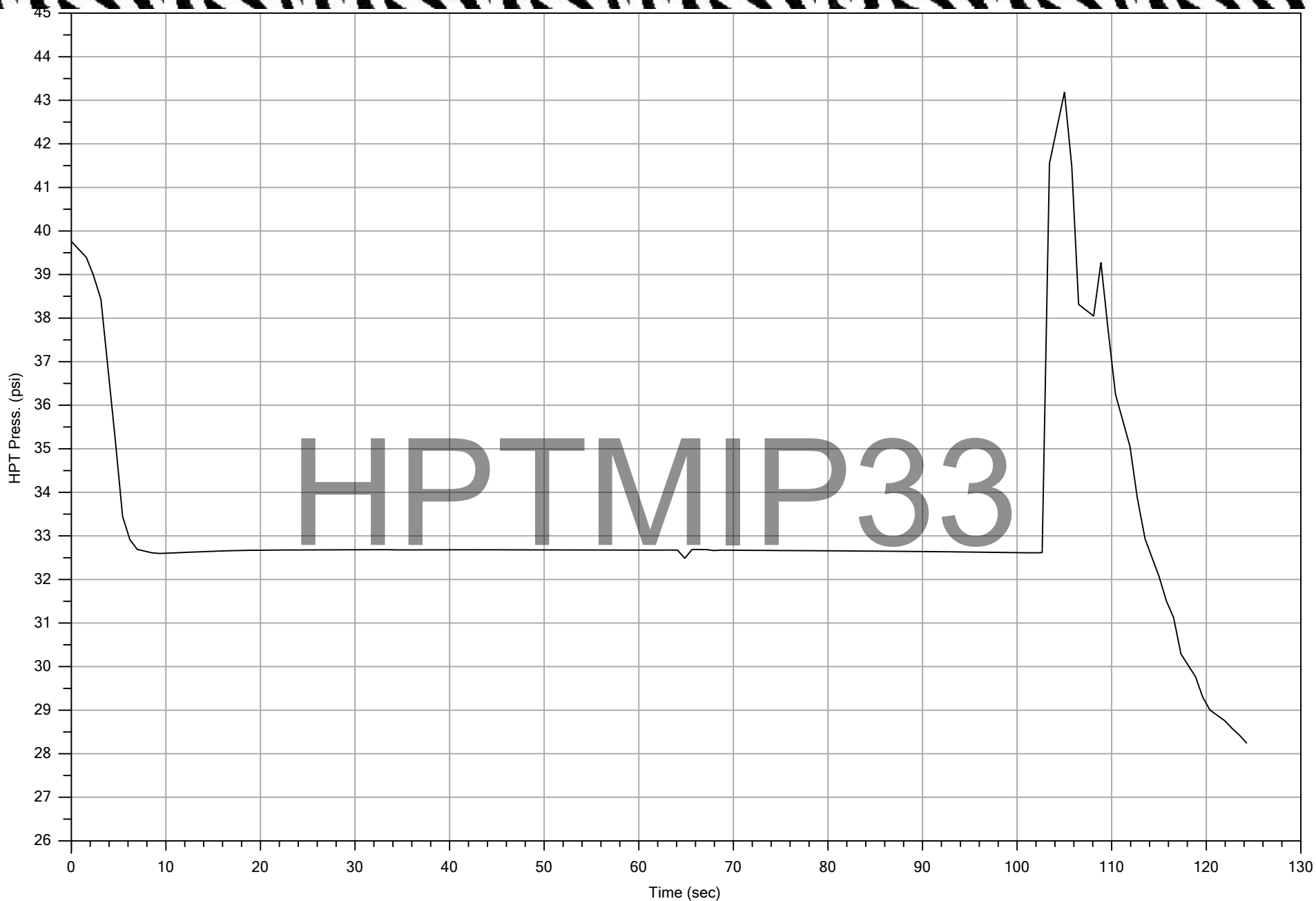
HPT DISSIPATION (SINGLE CASE)

Company: ZEBRA		File: HPTMIP33.DIS	
Operator: JD		Date: 4/6/2012	
Project ID: BROOKLYN		Sensor: HPT Press.	
Client: ROUX		Test: 1	
		Depth: 15.40 ft	



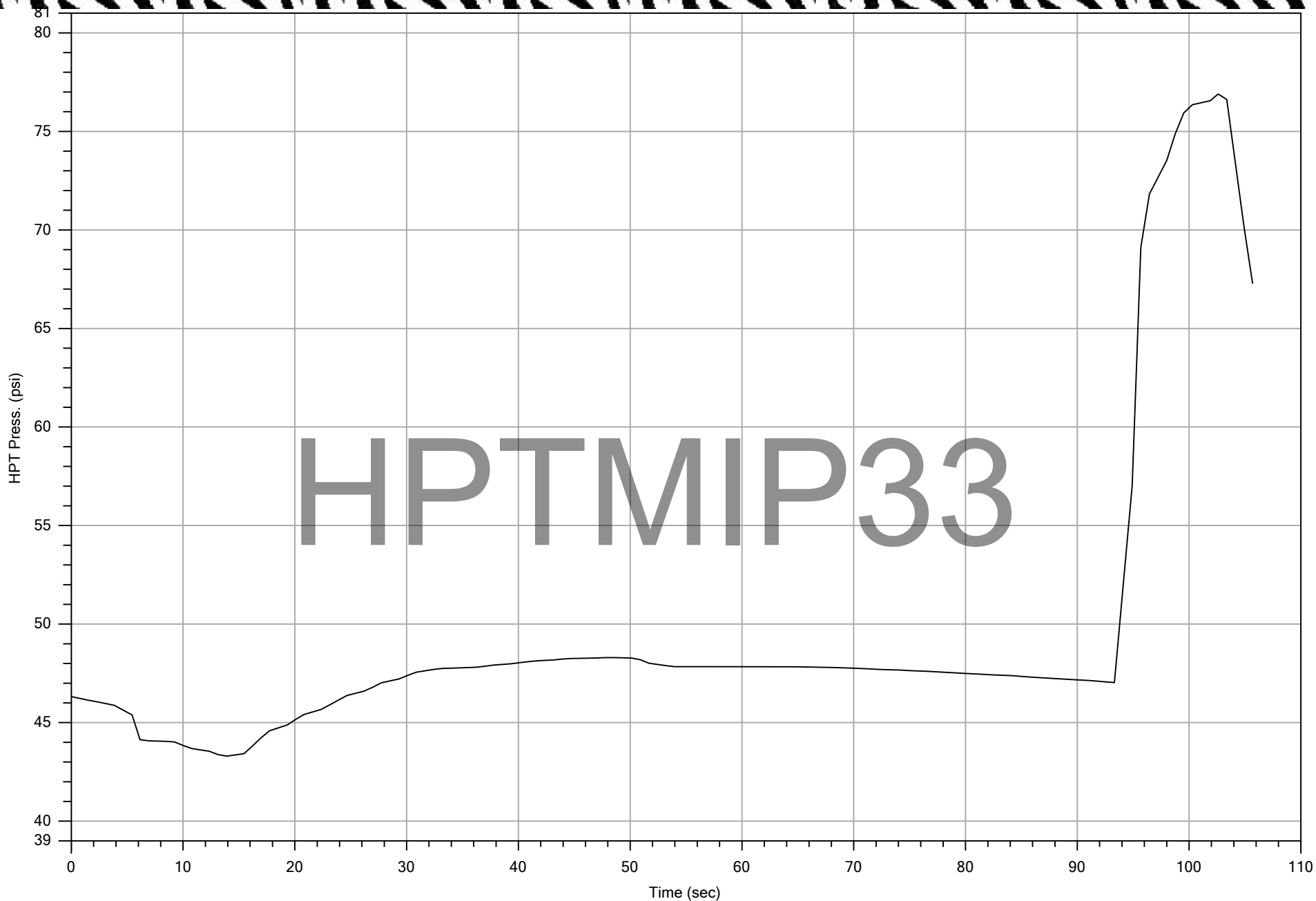
HPT DISSIPATION (SINGLE CASE)

Company: ZEBRA		File: HPTMIP33.DIS		Date: 4/6/2012	
Operator: JD		Location:		Sensor: HPT Press.	
Project ID: BROOKLYN		Client: ROUX		Depth: 17.15 ft	
				Test: 1	



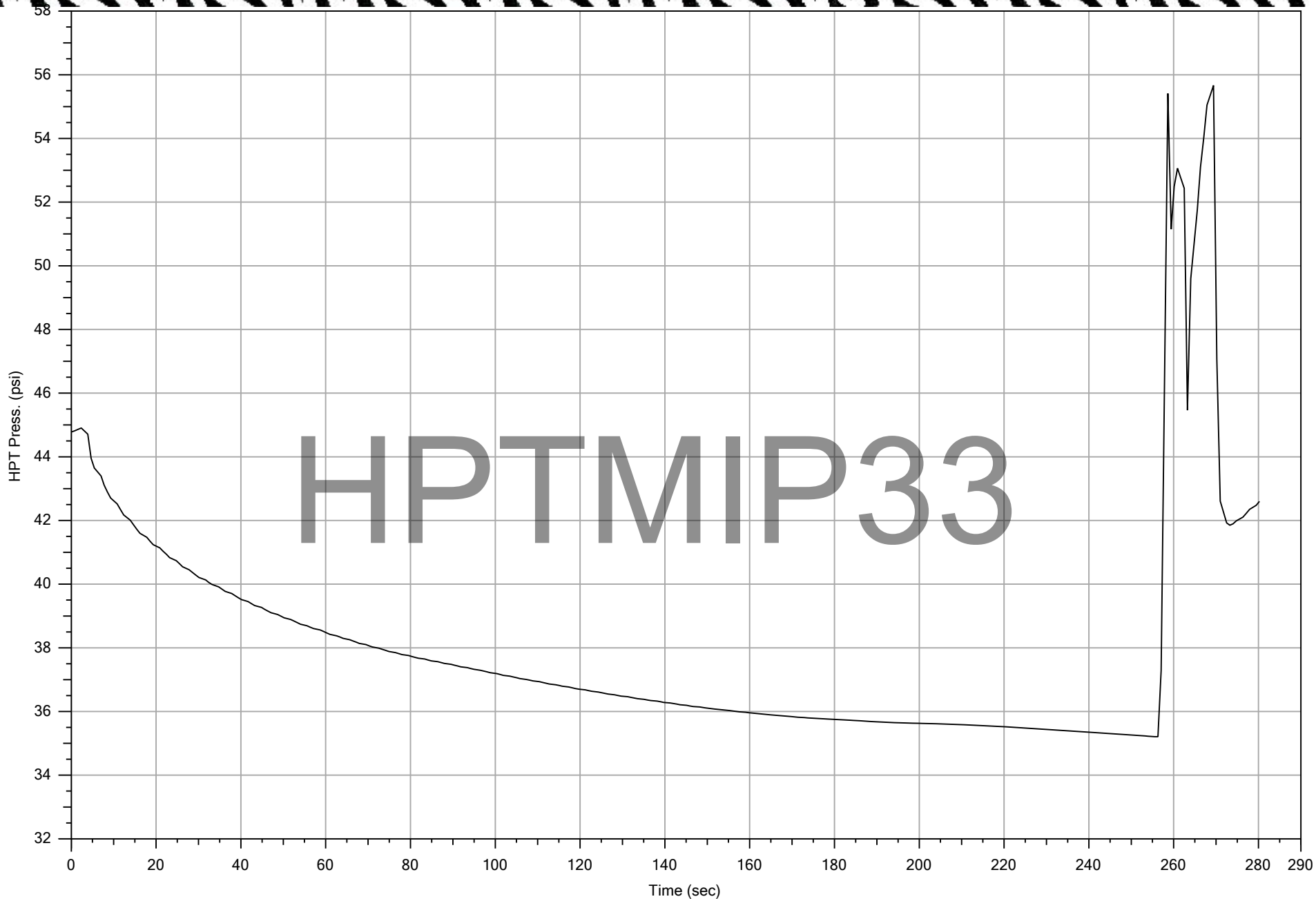
HPT DISSIPATION (SINGLE CASE)

Company: ZEBRA		File: HPTMIP33.DIS		Date: 4/6/2012	
Operator: JD		Location:		Sensor: HPT Press.	
Project ID: BROOKLYN		Client: ROUX		Depth: 29.40 ft	
				Test: 1	



HPT DISSIPATION (SINGLE CASE)

Company: ZEBRA		File: HPTMIP33.DIS		Date: 4/6/2012	
Operator: JD		Location:		Sensor: HPT Press.	
Project ID: BROOKLYN		Client: ROUX		Depth: 42.95 ft	
				Test: 1	



HPT DISSIPATION (SINGLE CASE)

Company: ZEBRA		File: HPTMIP33.DIS		Date: 4/6/2012	
Operator: JD		Location:		Sensor: HPT Press.	
Project ID: BROOKLYN		Client: ROUX		Depth: 43.25 ft	
				Test: 1	



FILENAME: HPTMIP33.RSP
PRE-LOG RESPONSE VALUES

PRE-LOG TEST DATE: 4/6/2012
PRE-LOG TEST TIME: 12:14:25

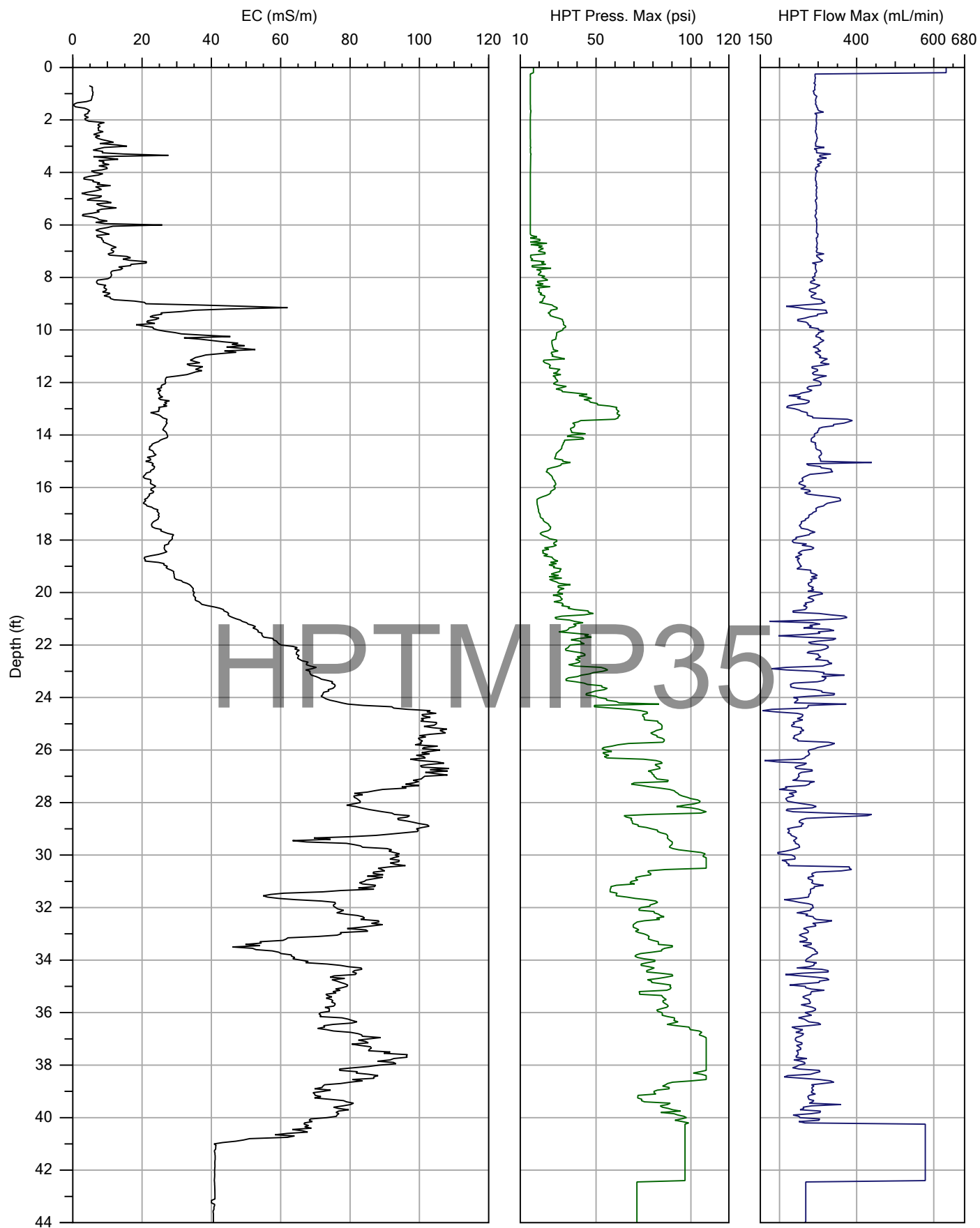
TEST	HPT PRESSURE (PSI)	FLOW (mL/Min)	HPT PRESSURE (KPA)
TOP with FLOW=0	15.308	0	105.545
TOP with FLOW>0	17.474	298	120.479
BOTTOM with FLOW=0	15.199	0	104.793
BOTTOM with FLOW>0	17.047	299	117.535

POST-LOG RESPONSE VALUES

POST-LOG TEST DATE: 4/6/2012
POST-LOG TEST TIME: 13:10:42

TEST	HPT PRESSURE (PSI)	FLOW (mL/Min)	HPT PRESSURE (KPA)
TOP with FLOW=0	15.295	0	105.455
TOP with FLOW>0	15.545	287	107.179
BOTTOM with FLOW=0	15.163	0	104.545
BOTTOM with FLOW>0	15.425	291	106.352

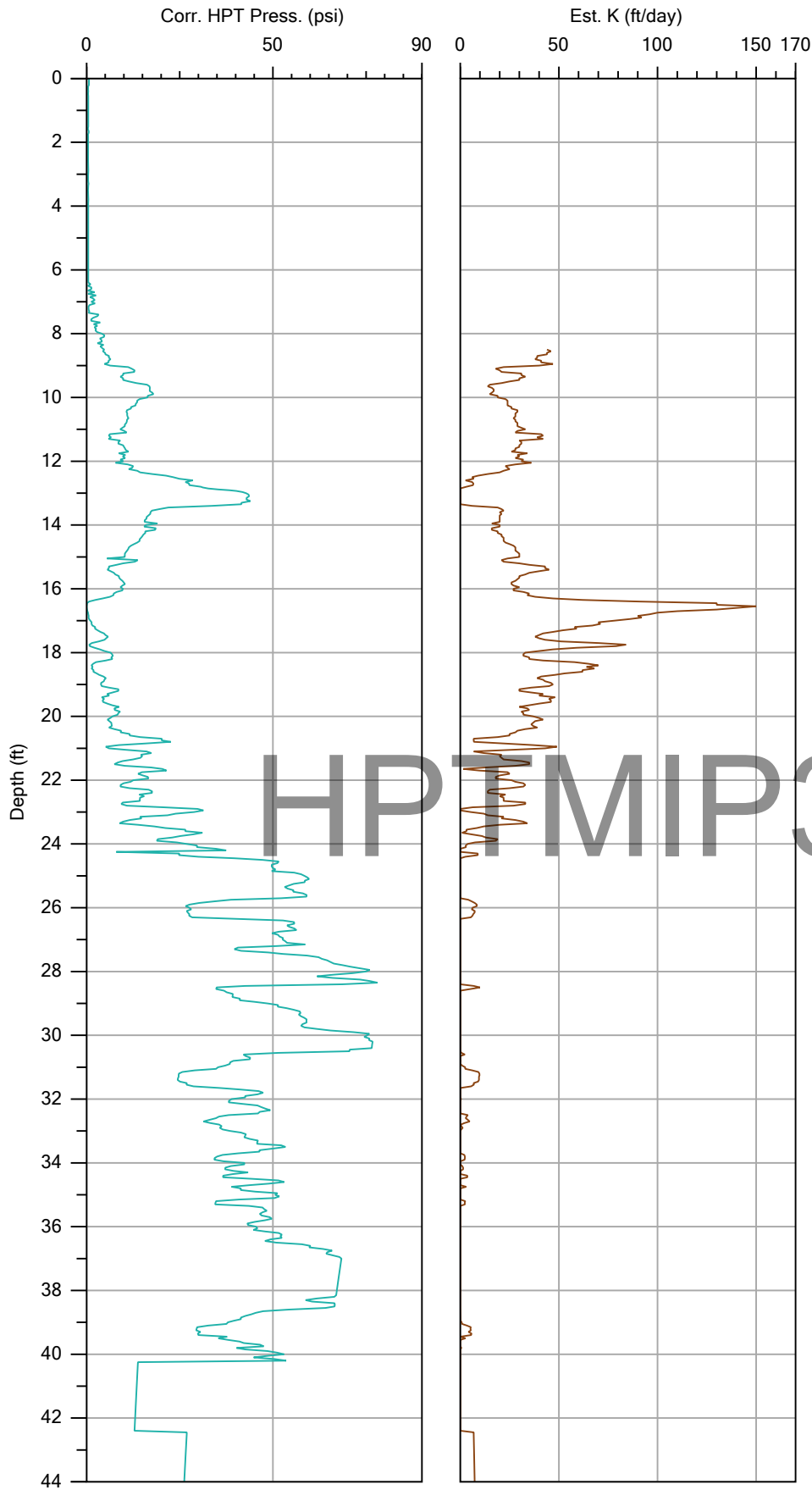
HPTMIP33



Company: ZEBRA
Project ID: BROOKLYN

Operator: JD
Client: ROUX

File: HPTMIP35.DAT
Date: 4/6/2012
Location:



Company:

ZEBRA

Operator:

JD

Project ID:

BROOKLYN

Client:

ROUX

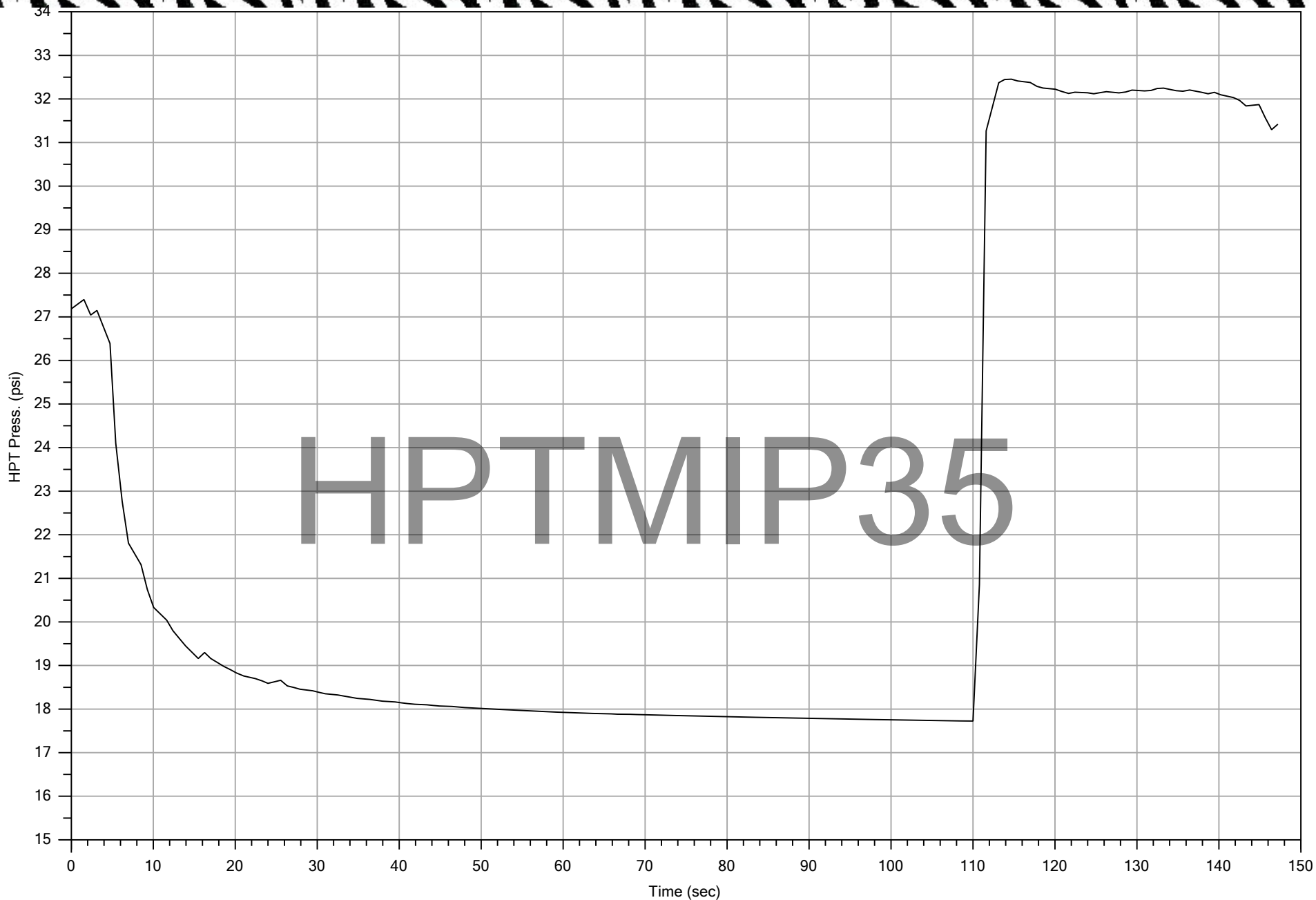
File:

HPTMIP35.DAT

Date:

4/6/2012

Location:

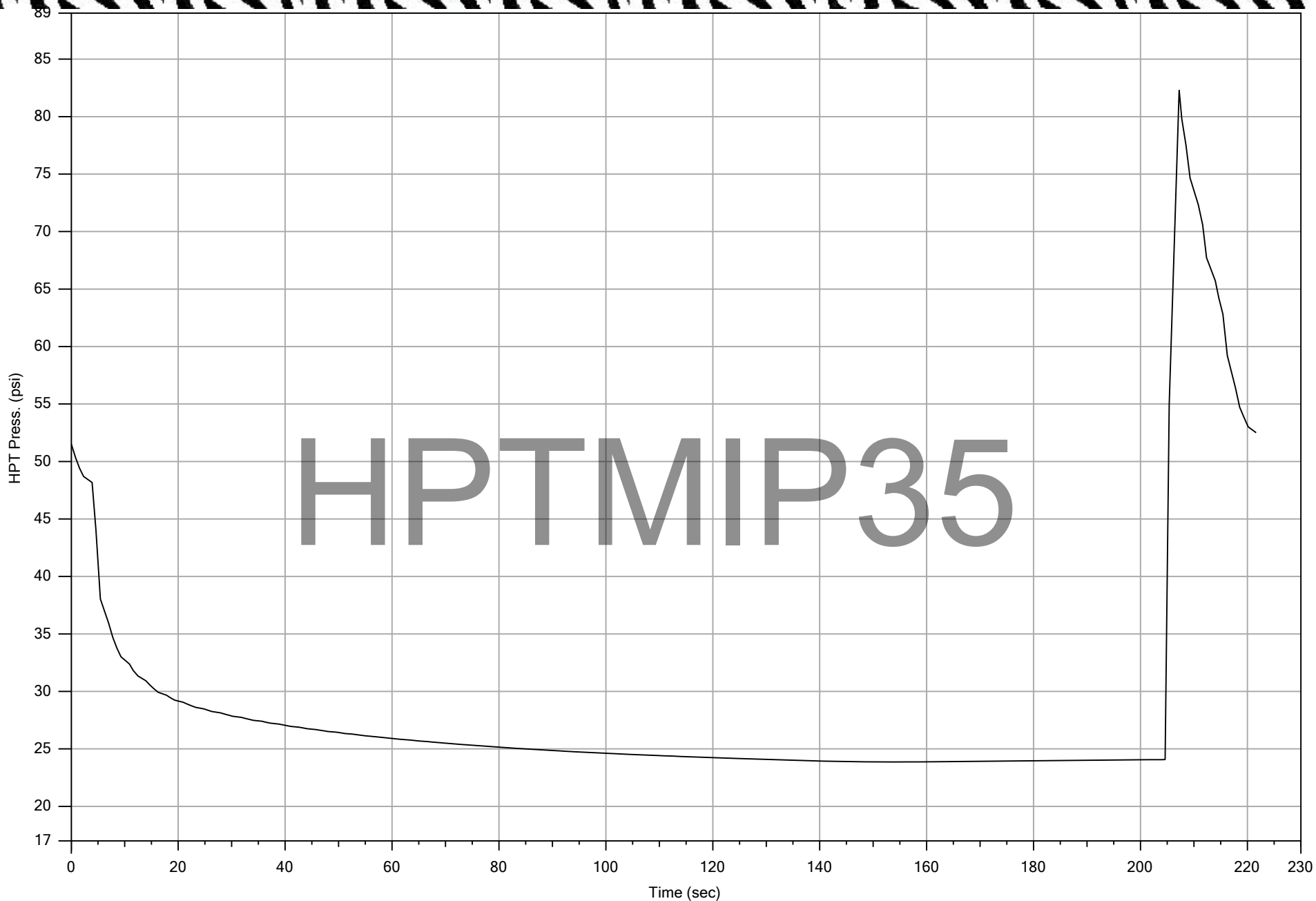


HPTMIP35



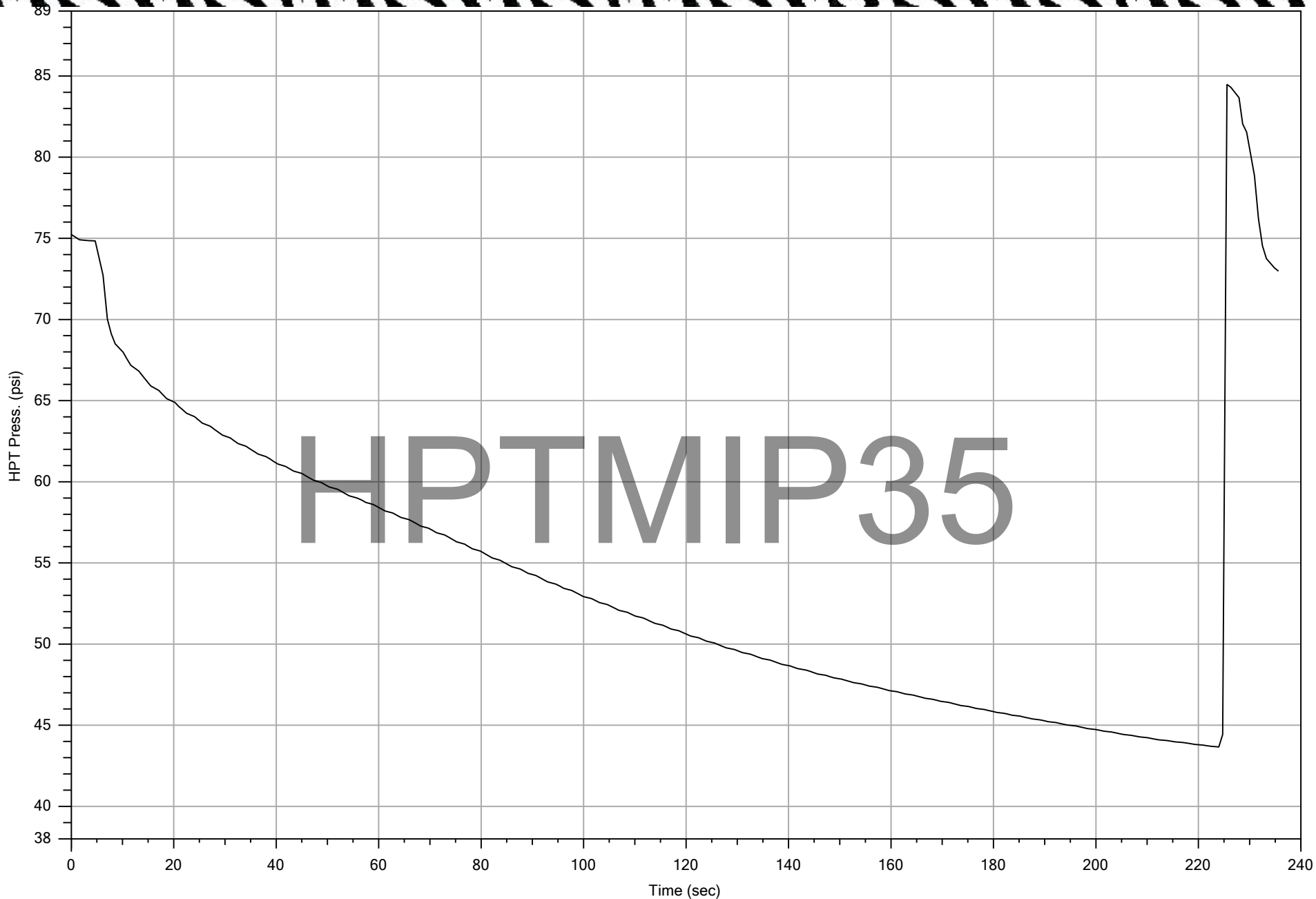
HPT DISSIPATION (SINGLE CASE)

Company:	ZEBRA	Operator:	JD	File:	HPTMIP35.DIS	Date:	4/6/2012
Project ID:	BROOKLYN	Client:	ROUX	Location:		Sensor:	HPT Press.
				Depth:	15.05 ft	Test:	1



HPT DISSIPATION (SINGLE CASE)

Company: ZEBRA		Operator: JD		File: HPTMIP35.DIS	Date: 4/6/2012
Project ID: BROOKLYN		Client: ROUX		Location:	Sensor: HPT Press.
				Depth: 24.25 ft	Test: 1



HPT DISSIPATION (SINGLE CASE)

Company: ZEBRA		File: HPTMIP35.DIS	Date: 4/6/2012
Operator: JD		Location:	Sensor: HPT Press.
Project ID: BROOKLYN		Depth: 40.25 ft	Test: 1
Client: ROUX			



FILENAME: HPTMIP35.RSP
PRE-LOG RESPONSE VALUES

PRE-LOG TEST DATE: 4/6/2012
PRE-LOG TEST TIME: 7:04:33

TEST	HPT PRESSURE (PSI)	FLOW (mL/Min)	HPT PRESSURE (KPA)
TOP with FLOW=0	15.332	0	105.710
TOP with FLOW>0	15.700	236	108.248
BOTTOM with FLOW=0	15.187	0	104.711
BOTTOM with FLOW>0	15.586	285	107.462

POST-LOG RESPONSE VALUES

POST-LOG TEST DATE: 4/6/2012
POST-LOG TEST TIME: 7:52:45

TEST	HPT PRESSURE (PSI)	FLOW (mL/Min)	HPT PRESSURE (KPA)
TOP with FLOW=0	15.332	0	105.710
TOP with FLOW>0	15.700	236	108.248
BOTTOM with FLOW=0	15.187	0	104.711
BOTTOM with FLOW>0	15.586	285	107.462

HPTMIP35

**Remedial Investigation Report
for Operable Unit 1**

APPENDIX B

Soil Boring Logs



ROUX ASSOCIATES, INC.
Environmental Consulting
& Management

209 Shafter Street
Islandia, NY 11749
Telephone: (631) 232-2600
Fax: (631) 232-9898

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SOIL BORING LOG

WELL NO. GWS-OU1-1	NORTHING 194905.7852	EASTING 998711.4977
PROJECT NO./NAME 0047.0044Y039 / Pfizer Site B and Site D	LOCATION 60-66 Gerry Street/191 Harrison Avenue Brooklyn, New York	
APPROVED BY E. Livingstone	LOGGED BY A. Hoffmann	
DRILLING CONTRACTOR/DRILLER Roux / J. Freijomil	GEOGRAPHIC AREA	
DRILL BIT DIAMETER/TYPE 2 inches / Drive Sampler	BOREHOLE DIAMETER 2-inches	DRILLING EQUIPMENT/METHOD Geoprobe 6620 DT / Geoprobe
LAND SURFACE ELEVATION Not Measured	DEPTH TO WATER Not Measured	SAMPLING METHOD 2" Macro-Core
	BACKFILL Soil Cuttings	START-FINISH DATE 6/6/12-6/6/12

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
5					
10		Brown, fine to coarse SAND, some Gravel, little Silt; moist. Dark gray to brown, CLAY and Silt; moist. Gray, SILT and Clay, trace fine Sand; moist to wet. Dark gray, CLAY, some Silt; moist to wet.	0.0 0.0 0.0 0.0		GWS-OU1-1/8-13 soil sample collected for TCL (VOCs, SVOCs, Pest./PCB, Herb.), TAL (Metals, Cyanide). GWS-OU1-1/8-13 groundwater sample collected for VOCs.
15					
20					
25		Gray to brown, SILT and Clay, trace fine Sand; wet. Gray to brown, CLAY, some Silt, trace fine Sand lenses; wet.	1.9 0.0		GWS-OU1-1/25-27 soil sample collected for VOCs. GWS-OU1-1/25-30 groundwater sample collected for VOCs.
30					Bottom of boring at 30 feet bls.

BORING/FEET 0047.0044Y038.GPJ ROUX.GDT 8/28/13



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Environmental Consulting
& Management

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Islandia, NY 11749
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Fax: (631) 232-9898

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SOIL BORING LOG

WELL NO. GWS-OU1-2	NORTHING 194936.1671	EASTING 998796.0463
PROJECT NO./NAME 0047.0044Y039 / Pfizer Site B and Site D		LOCATION 60-66 Gerry Street/191 Harrison Avenue
APPROVED BY E. Livingstone	LOGGED BY A. Hoffmann	Brooklyn, New York
DRILLING CONTRACTOR/DRILLER Roux / J. Freijomil		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE 2 inches / Drive Sampler	BOREHOLE DIAMETER 2-inches	DRILLING EQUIPMENT/METHOD Geoprobe 6620 DT / Geoprobe
LAND SURFACE ELEVATION Not Measured	DEPTH TO WATER Not Measured	SAMPLING METHOD 2" Macro-Core
		START-FINISH DATE 6/6/12-6/6/12
		BACKFILL Soil Cuttings

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
5					
10					
15					
20					
25					
30					
		Gray to brown, fine SAND, some Silt, trace Clay; wet.		9.3	GWS-OU1-2/25-26 soil sample collected for VOCs.
		Gray to brown, SILT and fine Sand, trace Clay; wet.		0.5	GWS-OU1-2/25-30 groundwater sample collected for VOCs.
		Gray to reddish brown, CLAY, some Silt, trace fine Sand lenses; wet.		0.1	
					Bottom of boring at 30 feet bls.

BORING/FEET 0047.0044Y038.GPJ ROUX.GDT 8/28/13



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Environmental Consulting
& Management

209 Shafter Street
Islandia, NY 11749
Telephone: (631) 232-2600
Fax: (631) 232-9898

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SOIL BORING LOG

WELL NO. GWS-OU1-3	NORTHING 194939.7313	EASTING 998870.1394
PROJECT NO./NAME 0047.0044Y039 / Pfizer Site B and Site D	LOCATION 60-66 Gerry Street/191 Harrison Avenue Brooklyn, New York	
APPROVED BY E. Livingstone	LOGGED BY A. Hoffmann	
DRILLING CONTRACTOR/DRILLER Roux / J. Freijomil	GEOGRAPHIC AREA	
DRILL BIT DIAMETER/TYPE 2 inches / Drive Sampler	BOREHOLE DIAMETER 2-inches	DRILLING EQUIPMENT/METHOD Geoprobe 6620 DT / Geoprobe
LAND SURFACE ELEVATION Not Measured	DEPTH TO WATER Not Measured	SAMPLING METHOD 2" Macro-Core
	BACKFILL Soil Cuttings	START-FINISH DATE 6/4/12-6/5/12

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
5		Dark brown, fine to coarse SAND, some Gravel, trace Silt and Debris (fill); wet.		1.2	
10		Gray to dark gray, SILT and Clay, trace fine Sand; wet.		64.3	GWS-OU1-3/8-13 groundwater sample collected for VOCs.
		Dark gray, fine to coarse SAND, some Silt, trace Gravel; wet.		354.0	GWS-OU1-3/9-12 soil sample collected for TCL (VOCs, SVOCs, Pest./PCB, Herb.), TAL (Metals, Cyanide). Odor.
		Brown, fine to coarse SAND, little Silt and Gravel; wet.		7.0	Odor.
		Brown, fine to coarse SAND, little Gravel, trace Silt; wet.		14.1	Odor.
15					
20					
25		Gray to brown, CLAY, some Silt, trace fine Sand; wet.		0.8	GWS-OU1-3/25-30 groundwater sample collected for VOCs.
		Gray to brown, CLAY, little Silt, trace fine Sand; wet.		0.4	
		Gray to brown, SILT, little Clay and fine Sand; wet.		1.8	
		Gray to brown, fine to medium SAND, some Silt, trace Clay; wet.		5.3	GWS-OU1-3/28-30 soil sample collected for VOCs.
30					Bottom of boring at 30 feet bls.

BORING/FEET 0047.0044Y038.GPJ ROUX.GDT 8/28/13



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SOIL BORING LOG

WELL NO. GWS-OU1-4	NORTHING 194953.1474	EASTING 998904.357
PROJECT NO./NAME 0047.0044Y039 / Pfizer Site B and Site D		LOCATION 60-66 Gerry Street/191 Harrison Avenue
APPROVED BY E. Livingstone	LOGGED BY A. Hoffmann	Brooklyn, New York
DRILLING CONTRACTOR/DRILLER Trinity / J. Sakellis		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE 2 inches / Drive Sampler	BOREHOLE DIAMETER 2-inches	DRILLING EQUIPMENT/METHOD Geoprobe 6620 DT / Geoprobe
LAND SURFACE ELEVATION Not Measured	DEPTH TO WATER Not Measured	SAMPLING METHOD 2" Macro-Core
		START-FINISH DATE 6/27/12-6/27/12
		BACKFILL Soil Cuttings

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
5					
10					
15					
20					
25					
		Gray, SILT, some fine Sand, little Clay; wet.		4.3	GWS-OU1-4/25-30 groundwater sample collected for VOCs.
		Gray, fine to medium SAND, some Silt; wet.		16.5	
		Brown, fine to medium SAND, some Silt; wet.		13.3	GWS-OU1-4/26-27 soil sample collected for VOCs.
		Brown, SILT and fine Sand, trace Clay; wet.		8.3	
		Gray to brown, SILT and fine Sand, trace Clay; wet.		11.9	
		Gray to brown, SILT, some fine Sand, trace Clay; wet.		0.0	Bottom of boring at 30 feet bls.
30					

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SOIL BORING LOG

WELL NO. GWS-OU1-5	NORTHING 194780.8173	EASTING 998842.8814
PROJECT NO./NAME 0047.0044Y039 / Pfizer Site B and Site D	LOCATION 60-66 Gerry Street/191 Harrison Avenue Brooklyn, New York	
APPROVED BY E. Livingstone	LOGGED BY A. Hoffmann	
DRILLING CONTRACTOR/DRILLER ADT / C. Capo	GEOGRAPHIC AREA	
DRILL BIT DIAMETER/TYPE 2 inches / Drive Sampler	BOREHOLE DIAMETER 2-inches	DRILLING EQUIPMENT/METHOD Geoprobe 6620 DT / Geoprobe
LAND SURFACE ELEVATION Not Measured	DEPTH TO WATER Not Measured	SAMPLING METHOD 2" Macro-Core
	BACKFILL Soil Cuttings	START-FINISH DATE 6/28/12-6/28/12

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
5					
		Brown, fine to coarse SAND, some Gravel, little Silt (fill); moist.		3.4	GWS-OU1-5/5-10 groundwater sample collected for VOCs.
		Brown to gray, fine to coarse SAND and Gravel, trace Silt (fill); moist.		21.6	
		Dark brown, fine to coarse SAND and Silt, little Gravel; moist.		98.8	GWS-OU1-5/8-10 soil sample collected for VOCs. Staining, odor.
10					
15					
20					
25		Brown to gray, fine SAND and Silt, trace Clay; wet.		0.5	GWS-OU1-5/25-30 soil sample collected for VOCs.
		Brown to gray, SILT and fine Sand, trace Clay; wet.		0.2	GWS-OU1-5/25-30 groundwater sample collected for VOCs.
		Brown to gray, CLAY, some Silt, trace Silt and fine Sand lenses; wet.		0.4	
30					Bottom of boring at 30 feet bls.

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SOIL BORING LOG

WELL NO. GWS-OU1-6	NORTHING 194787.5317	EASTING 998851.4751		
PROJECT NO./NAME 0047.0044Y039 / Pfizer Site B and Site D		LOCATION 60-66 Gerry Street/191 Harrison Avenue Brooklyn, New York		
APPROVED BY E. Livingstone	LOGGED BY A. Hoffmann			
DRILLING CONTRACTOR/DRILLER ADT / C. Capo		GEOGRAPHIC AREA		
DRILL BIT DIAMETER/TYPE 2 inches / Drive Sampler	BOREHOLE DIAMETER 2-inches	DRILLING EQUIPMENT/METHOD Geoprobe 6620 DT / Geoprobe	SAMPLING METHOD 2" Macro-Core	START-FINISH DATE 6/29/12-6/29/12
LAND SURFACE ELEVATION Not Measured	DEPTH TO WATER Not Measured	BACKFILL Soil Cuttings		

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
5		Brown, fine to coarse SAND and Gravel, little Silt (fill); moist.		3.2	
10		Brown to gray, SILT, little Clay and fine Sand; moist		1.6	GWS-OU1-6/8-13 groundwater sample collected for VOCs.
		Dark gray, SILT and fine to coarse Sand, trace Clay; wet.		1.7	GWS-OU1-6/9-11 soil sample collected for TCL (VOCs, SVOCs, Pest./PCB, Herb.), TAL (Metals, Cyanide).
		Dark gray, SILT, some Clay; wet.		15.9	
		Gray to green, CLAY and Silt, little Gravel; wet.		54.7	
		Gray to green, fine to coarse SAND, some Gravel, little Silt, trace Clay; wet.		20.1	
15				192.0	GWS-OU1-6/13-15 soil sample collected for TCL (VOCs, SVOCs, Pest./PCB, Herb.), TAL (Metals, Cyanide).
20					
25		Brown to gray, fine SAND, some Silt; wet.		169.2	GWS-OU1-6/20-22 soil sample collected for VOCs.
				98.6	GWS-OU1-6/20-25 groundwater sample collected for VOCs.
				6.6	
				1.5	
				1.3	Bottom of boring at 25 feet bls.

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SOIL BORING LOG

WELL NO. GWS-OU1-7	NORTHING 194761.5247	EASTING 998858.8189
PROJECT NO./NAME 0047.0044Y039 / Pfizer Site B and Site D	LOCATION 60-66 Gerry Street/191 Harrison Avenue Brooklyn, New York	
APPROVED BY E. Livingstone	LOGGED BY A. Hoffmann	
DRILLING CONTRACTOR/DRILLER ADT / C. Capo	GEOGRAPHIC AREA	
DRILL BIT DIAMETER/TYPE 2 inches / Drive Sampler	BOREHOLE DIAMETER 2-inches	DRILLING EQUIPMENT/METHOD Geoprobe 6620 DT / Geoprobe
LAND SURFACE ELEVATION Not Measured	DEPTH TO WATER Not Measured	SAMPLING METHOD 2" Macro-Core
	BACKFILL Soil Cuttings	START-FINISH DATE 6/28/12-6/28/12

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
5		Brown, SILT and fine to coarse Sand, little Gravel (fill); moist.		1.9	GWS-OU1-7/5-10 groundwater sample collected for VOCs.
		Brown to gray, SILT and fine to coarse Sand, some Gravel (fill); moist.		13.8	GWS-OU1-7/6-10 soil sample collected for VOCs.
		Brown, SILT and fine Sand, trace Clay; wet.		9.7	
		Brown to gray, SILT, some Clay, little fine Sand; wet.		5.6	
10		Dark gray, SILT and fine Sand, little Clay; wet.		21.3	Staining, odor.
		Dark gray, fine to coarse SAND and Gravel, little Silt; wet.		157.0	GWS-OU1-7/10-13 soil sample collected for VOCs.
		Dark gray, SILT and Clay; wet.		254.5	GWS-OU1-7/10-15 groundwater sample collected for VOCs.
		Gray, CLAY and Silt; wet.		65.5	Septic odor.
		Gray to green. CLAY, little Silt; wet.		8.4	
15		Gray to green, CLAY and Silt, some fine Sand; wet.		44.2	Bottom of boring at 15 feet bls.



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SOIL BORING LOG

WELL NO. GWS-OU1-8	NORTHING 194768.4431	EASTING 998867.9769
PROJECT NO./NAME 0047.0044Y039 / Pfizer Site B and Site D	LOCATION 60-66 Gerry Street/191 Harrison Avenue Brooklyn, New York	
APPROVED BY E. Livingstone	LOGGED BY A. Hoffmann	
DRILLING CONTRACTOR/DRILLER ADT / C. Capo	GEOGRAPHIC AREA	
DRILL BIT DIAMETER/TYPE 2 inches / Drive Sampler	BOREHOLE DIAMETER 2-inches	DRILLING EQUIPMENT/METHOD Geoprobe 6620 DT / Geoprobe
LAND SURFACE ELEVATION Not Measured	DEPTH TO WATER Not Measured	SAMPLING METHOD 2" Macro-Core
	BACKFILL Soil Cuttings	START-FINISH DATE 6/29/12-6/29/12

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
5					
		Brown, SILT and fine to coarse Sand, some Gravel (fill); moist.		2.1	
10		Dark gray, fine to coarse SAND, some Silt; wet.		28.4	GWS-OU1-8/8-13 groundwater sample collected for VOCs.
		Dark gray, SILT, some Clay; wet.		48.5	
		Gray, CLAY and Silt, trace Gravel; wet.		28.4	GWS-OU1-8/10-15 soil sample collected for TCL (VOCs, SVOCs, Pest./PCB, Herb.), TAL (Metals, Cyanide). Sheen. Septic odor.
15					Bottom of boring at 15 feet bls.

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SOIL BORING LOG

WELL NO. GWS-OU1-9	NORTHING 194777.5827	EASTING 998816.1505
PROJECT NO./NAME 0047.0044Y039 / Pfizer Site B and Site D	LOCATION 60-66 Gerry Street/191 Harrison Avenue Brooklyn, New York	
APPROVED BY E. Livingstone	LOGGED BY A. Hoffmann	
DRILLING CONTRACTOR/DRILLER ADT / B. Cruz	GEOGRAPHIC AREA	
DRILL BIT DIAMETER/TYPE 2 inches / Drive Sampler	BOREHOLE DIAMETER 2-inches	DRILLING EQUIPMENT/METHOD Geoprobe 6620 DT / Geoprobe
LAND SURFACE ELEVATION Not Measured	DEPTH TO WATER Not Measured	SAMPLING METHOD 2" Macro-Core
	BACKFILL Soil Cuttings	START-FINISH DATE 7/3/12-7/3/12

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
5					5
10					10
		BRICK and Concrete, some Debris (fill); moist.		0.0	GWS-OU1-9/10-15 groundwater sample collected for VOCs.
		Brown, SILT and fine Sand, little Gravel, trace Clay; wet.		0.2	
		Dark gray, SILT, some Clay, little fine Sand; wet.		1.2	
		Brown to gray, SILT, little Clay and fine Sand, trace Gravel; wet.		38.2	Septic odor.
		Dark gray, CLAY, some Silt lenses; wet.		124.5	GWS-OU1-9/14-15 soil sample collected for TCL (VOCs, SVOCs, Pest./PCB, Herb.), TAL (Metals, Cyanide).
15		Green to gray, fine to coarse SAND, little Silt; wet.		5.8	GWS-OU1-9/15-20 groundwater sample collected for VOCs.
		Olive green, fine to coarse SAND and Gravel, trace Silt; wet.		55.8	GWS-OU1-9/16-20 soil sample collected for VOCs.
		Brown to gray, fine to coarse SAND, some Gravel, trace Silt; wet.			
20					20
		Brown to gray, fine to coarse SAND and Gravel, trace Silt; wet.		7.4	GWS-OU1-9/20-25 groundwater sample collected for VOCs.
		Brown to gray, fine SAND, little Silt; wet.		58.2	GWS-OU1-9/23-25 soil sample collected for VOCs.
25					25
		Brown to gray, SILT and fine Sand, trace Clay; wet.		3.3	GWS-OU1-9/25-26 soil sample collected for VOCs.
		Brown to gray, CLAY and Silt, trace fine Sand; wet.		0.0	GWS-OU1-9/25-30 groundwater sample collected for VOCs.
30					30
				0.0	Bottom of boring at 30 feet bls.

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SOIL BORING LOG

WELL NO. GWS-OU1-10	NORTHING 194762.7057	EASTING 998824.5755
PROJECT NO./NAME 0047.0044Y039 / Pfizer Site B and Site D	LOCATION 60-66 Gerry Street/191 Harrison Avenue Brooklyn, New York	
APPROVED BY E. Livingstone	LOGGED BY A. Hoffmann	
DRILLING CONTRACTOR/DRILLER Roux / J. Freijomil	GEOGRAPHIC AREA	
DRILL BIT DIAMETER/TYPE 2 inches / Drive Sampler	BOREHOLE DIAMETER 2-inches	DRILLING EQUIPMENT/METHOD Geoprobe 6620 DT / Geoprobe
LAND SURFACE ELEVATION Not Measured	DEPTH TO WATER Not Measured	SAMPLING METHOD 2" Macro-Core
	BACKFILL Soil Cuttings	START-FINISH DATE 5/30/12-6/4/12

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
		CONCRETE.			
		Dark brown, fine to coarse SAND, some Gravel, little Silt (fill); moist.		1.1	
		BRICK, some Wood fragments (fill); moist.			
5		Dark brown, fine to coarse SAND, some Gravel and Brick, little Silt (fill); moist.	0.9		5
		Brown, fine to coarse SAND, some Silt, little Gravel; moist to wet.	3.1		
		Dark gray, SILT and Clay; moist.	6.3		Slight sanitary odor.
10		Dark gray to gray, SILT, little Clay and fine Sand; moist to wet.	2.7		10
		Gray, fine SAND, little Silt; wet.	5.7		
		Brown to olive green, fine to coarse SAND, some Silt, little Gravel; moist to wet.			
15		Brown to dark brown, fine to coarse SAND, little Silt, trace Gravel; wet.	8.1		15
			8.1		GWS-OU1-10/15-18 soil sample collected for VOCs.
		Dark brown, fine to coarse SAND, some Gravel, little Silt; wet.	8.4		
20		Dark brown to gray, fine SAND, little coarse Sand, trace Gravel and Silt; wet.			20
		Gray, fine SAND, trace Silt; wet.	1.1		GWS-OU1-10/20-22 soil sample collected for VOCs.
		Gray to brown, fine to medium SAND, little coarse Sand; wet.	0.1		
		Gray to brown, fine SAND, some Silt, trace medium to coarse Sand; wet.			
25		Gray to brown, CLAY, some Silt and fine Sand; wet.	0.0		25
		Gray to brown, CLAY, little Silt, trace fine Sand; wet.			GWS-OU1-10/25-30 soil sample collected for VOCs.
30					30

BORING/FEET 0047.0044Y038.GPJ ROUX.GDT 8/28/13



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SOIL BORING LOG

WELL NO.	NORTHING	EASTING
GWS-OU1-10	194762.7057	998824.5755
PROJECT NO./NAME		LOCATION
0047.0044Y039 / Pfizer Site B and Site D		60-66 Gerry Street/191 Harrison Avenue Brooklyn, New York
APPROVED BY	LOGGED BY	
E. Livingstone	A. Hoffmann	

Depth, feet	Graphic Log	Visual Description (continued)	Blow Counts per 6"	PID Values (ppm)	REMARKS
		Brown to gray, CLAY, little Silt, trace fine Sand lenses; wet.		0.0	
35		Gray to brown, CLAY, some Silt, trace fine Sand lenses; wet.		0.0	
40		Gray to reddish brown, SILT and Clay, trace fine Sand lenses; wet.		0.0	
		Gray to brown, SILT and Clay, trace fine Sand lenses; wet			
45		Gray to brown, SILT and fine Sand, trace Clay; wet.		0.0	GWS-OU1-10/45-47 soil sample collected for VOCs.
		Gray to brown, fine to coarse SAND, little Silt, trace Gravel; wet.			GWS-OU1-10/45-50 groundwater sample collected for VOCs.
50				0.0	
55		Gray to brown, fine to coarse SAND and Silt, little Gravel; wet.		0.0	
		Gray to brown, SILT and fine Sand, little medium to coarse Sand, little Clay; wet.			
60		Gray to brown, fine to coarse SAND and Silt, little Gravel; wet.			
		Gray to brown, fine to coarse SAND and Silt; wet.		0.0	
		Gray to brown, SILT, little fine to medium Sand; wet.			
		Gray to brown, fine to coarse SAND and Silt, little Gravel; wet.			

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SOIL BORING LOG

WELL NO. GWS-OU1-10		NORTHING 194762.7057	EASTING 998824.5755		
PROJECT NO./NAME 0047.0044Y039 / Pfizer Site B and Site D			LOCATION 60-66 Gerry Street/191 Harrison Avenue		
APPROVED BY E. Livingstone		LOGGED BY A. Hoffmann	Brooklyn, New York		
Depth, feet	Graphic Log	Visual Description (continued)	Blow Counts per 6"	PID V a l u e s (ppm)	REMARKS
65		Gray to brown, fine to coarse SAND and Silt, little Gravel; wet. <i>(continued)</i>		0.0	GWS-OU1-10/65-70
		Gray to brown, fine to coarse SAND, some Silt, trace Gravel; wet.			groundwater sample collected
		Gray to brown, medium to coarse SAND, some Gravel, trace Silt; wet.			for VOCs.
		Gray to brown, fine SAND, little Silt, trace Gravel; wet.			GWS-OU1-10/68-70 soil
70					sample collected for VOCs. Bottom of boring at 70 feet bls.



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SOIL BORING LOG

WELL NO. GWS-OU1-11	NORTHING 194751.541	EASTING 998838.6766
PROJECT NO./NAME 0047.0044Y039 / Pfizer Site B and Site D	LOCATION 60-66 Gerry Street/191 Harrison Avenue Brooklyn, New York	
APPROVED BY E. Livingstone	LOGGED BY A. Hoffmann	
DRILLING CONTRACTOR/DRILLER ADT / B. Cruz	GEOGRAPHIC AREA	
DRILL BIT DIAMETER/TYPE 2 inches / Drive Sampler	BOREHOLE DIAMETER 2-inches	DRILLING EQUIPMENT/METHOD Geoprobe 6620 DT / Geoprobe
LAND SURFACE ELEVATION Not Measured	DEPTH TO WATER Not Measured	SAMPLING METHOD 2" Macro-Core
	BACKFILL Soil Cuttings	START-FINISH DATE 7/3/12-7/3/12

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
5					
10					
		Reddish brown to gray, fine to coarse SAND and Gravel, trace Debris (fill); moist.		77.3	GWS-OU1-11/10-15 groundwater sample collected for VOCs.
		Brown, fine to coarse SAND, some Silt, little Gravel, trace Clay; wet.		60.0	
		Dark brown, SILT and Clay; wet.		8.0	Septic odor.
		Green to gray, CLAY and Silt, trace fine Sand lenses; wet.		75.6	
15		Green to gray, fine to coarse SAND and Gravel, trace Silt; wet.		1440	Odor. GWS-OU1-11/14-15 soil sample collected for TCL (VOCs, SVOCs, Pest./PCB, Herb.), TAL (Metals, Cyanide).
		Brown to green, medium to coarse SAND and Gravel, trace Silt; wet.		259.7	GWS-OU1-11/15-16 soil sample collected for VOCs.
		Brown to gray, fine SAND and Silt, trace Gravel; wet.		48.7	GWS-OU1-11/15-20 groundwater sample collected for VOCs.
				10.6	Odor.
20					
		Brown to gray, fine SAND and Silt; wet.		37.6	GWS-OU1-11/20-22 soil sample collected for VOCs.
					GWS-OU1-11/20-25 groundwater sample collected for VOCs.
		Brown to gray, CLAY, little Silt; wet.		0.4	
25					
		Gray to brown, CLAY, little Silt, trace fine Sand; wet.		0.3	GWS-OU1-11/25-30 soil sample collected for VOCs.
				0.3	
30					Bottom of boring at 30 feet bls.

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SOIL BORING LOG

WELL NO. GWS-OU1-12	NORTHING 194693.4681	EASTING 998807.4266
PROJECT NO./NAME 0047.0044Y039 / Pfizer Site B and Site D	LOCATION 60-66 Gerry Street/191 Harrison Avenue Brooklyn, New York	
APPROVED BY E. Livingstone	LOGGED BY A. Hoffmann	
DRILLING CONTRACTOR/DRILLER ADT / B. Cruz	GEOGRAPHIC AREA	
DRILL BIT DIAMETER/TYPE 2 inches / Drive Sampler	BOREHOLE DIAMETER 2-inches	DRILLING EQUIPMENT/METHOD Geoprobe 6620 DT / Geoprobe
LAND SURFACE ELEVATION Not Measured	DEPTH TO WATER Not Measured	SAMPLING METHOD 2" Macro-Core
	BACKFILL Soil Cuttings	START-FINISH DATE 7/2/12-7/2/12

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
5		Brown, fine to coarse SAND and Gravel, trace Silt and Debris (fill); moist.		0.4	
		Brown to gray, fine to coarse SAND and Silt, little Gravel, trace Clay; moist.		0.4	
		Dark gray, SILT and fine to coarse Sand, little Gravel, trace Clay; wet.			GWS-OU1-12/8-13 groundwater sample collected for VOCs.
10		Dark gray, SILT and Clay; wet.		0.4	
		Gray to green, CLAY and Silt; wet.		0.4	
		Gray to green, fine to coarse SAND and Gravel, little Silt, trace Clay; wet.		0.4	GWS-OU1-12/12-14 soil sample collected for TCL (VOCs, SVOCs, Pest./PCB, Herb.), TAL (Metals, Cyanide).
		Olive green, fine to coarse SAND and Gravel, trace Silt; wet.		0.5	
15		Brown to gray, fine to coarse SAND, some Gravel, trace Silt; wet.		0.4	Bottom of boring at 15 feet bls.



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SOIL BORING LOG

WELL NO. GWS-OU1-13	NORTHING 194650.1087	EASTING 998759.1193
PROJECT NO./NAME 0047.0044Y039 / Pfizer Site B and Site D	LOCATION 60-66 Gerry Street/191 Harrison Avenue Brooklyn, New York	
APPROVED BY E. Livingstone	LOGGED BY A. Hoffmann	
DRILLING CONTRACTOR/DRILLER ADT / B. Cruz	GEOGRAPHIC AREA	
DRILL BIT DIAMETER/TYPE 2 inches / Drive Sampler	BOREHOLE DIAMETER 2-inches	DRILLING EQUIPMENT/METHOD Geoprobe 6620 DT / Geoprobe
LAND SURFACE ELEVATION Not Measured	DEPTH TO WATER Not Measured	SAMPLING METHOD 2" Macro-Core
	BACKFILL Soil Cuttings	START-FINISH DATE 7/2/12-7/2/12

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
5		Brown, fine to coarse SAND, some Gravel, trace Silt and Debris (fill); moist.		0.3	
		Gray, fine to coarse SAND and Gravel, trace Silt (fill); wet.		0.3	
		Brown to gray, fine to medium SAND, some Silt; wet.			
10		Dark brown to gray, CLAY and Silt, trace fine Sand; wet.			
		Gray to green, fine SAND, some Silt, trace Clay; wet.		0.5	GWS-OU1-13/10-15 soil sample collected for TCL (VOCs, SVOCs, Pest./PCB, Herb.), TAL (Metals, Cyanide).
		Brown, fine to medium SAND, some Silt, trace Clay; wet.		2.5	GWS-OU1-13/10-15 groundwater sample collected for VOCs.
15		Brown, fine to coarse SAND, some Silt, trace Clay; wet.		0.7	
		Brown, SILT, some fine Sand, trace Clay; wet.		0.7	
20		Brown to gray, SILT, some Clay, little fine Sand; wet.		1.1	
		Brown to gray, CLAY, little Silt, trace fine Sand lenses; wet.		0.7	
25				0.7	GWS-OU1-13/23-28 soil sample collected for VOCs.
				0.7	GWS-OU1-13/23-28 groundwater sample collected for VOCs.
30		Brown to gray, SILT and fine Sand, trace Clay; wet.			Bottom of boring at 30 feet bls.

BORING/FEET 0047.0044Y038.GPJ ROUX.GDT 8/28/13



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SOIL BORING LOG

WELL NO. GWS-OU1-14	NORTHING 194586.6882	EASTING 998837.0365
PROJECT NO./NAME 0047.0044Y039 / Pfizer Site B and Site D	LOCATION 60-66 Gerry Street/191 Harrison Avenue Brooklyn, New York	
APPROVED BY E. Livingstone	LOGGED BY A. Hoffmann	
DRILLING CONTRACTOR/DRILLER ADT / B. Cruz	GEOGRAPHIC AREA	
DRILL BIT DIAMETER/TYPE 2 inches / Drive Sampler	BOREHOLE DIAMETER 2-inches	DRILLING EQUIPMENT/METHOD Geoprobe 6620 DT / Geoprobe
LAND SURFACE ELEVATION Not Measured	DEPTH TO WATER Not Measured	SAMPLING METHOD 2" Macro-Core
	BACKFILL Soil Cuttings	START-FINISH DATE 7/2/12-7/2/12

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
5					
10		Brown to tan, fine to coarse SAND and Gravel, trace Silt and Debris (fill); moist. Brown, fine to coarse SAND, some Silt, trace Gravel; moist. Dark brown to gray, fine SAND and Silt; moist. Brown, fine to coarse SAND, little Silt; moist. Dark gray, SILT, some Clay; moist. Gray, fine SAND, little Silt, trace Clay; moist. Dark gray, SILT and Clay; moist. Gray to green, CLAY, some Silt; moist.		0.7 0.6 0.7 0.9 0.4	GWS-OU1-14/10-15 groundwater sample collected for VOCs. GWS-OU1-14/13-14 soil sample collected for TCL (VOCs, SVOCs, Pest./PCB, Herb.), TAL (Metals, Cyanide). Bottom of boring at 15 feet bls.
15					



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SOIL BORING LOG

WELL NO. SB-OU1-1	NORTHING 194651.0733	EASTING 998888.6974
PROJECT NO./NAME 0047.0044Y039 / Pfizer Site B and Site D	LOCATION 60-66 Gerry Street/191 Harrison Avenue Brooklyn, New York	
APPROVED BY E. Livingstone	LOGGED BY A. Hoffmann	
DRILLING CONTRACTOR/DRILLER Roux / J. Freijomil	GEOGRAPHIC AREA	
DRILL BIT DIAMETER/TYPE 2 inches / Drive Sampler	BOREHOLE DIAMETER 2-inches	DRILLING EQUIPMENT/METHOD Geoprobe 6620 DT / Geoprobe
LAND SURFACE ELEVATION Not Measured	DEPTH TO WATER Not Measured	SAMPLING METHOD 2" Macro-Core
	BACKFILL Soil Cuttings	START-FINISH DATE 5/29/12-5/29/12

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
		CONCRETE.		0.6	
		Brown, medium to coarse SAND and Gravel (fill); moist.		1.6	
		SAND (fill); moist.		1.0	
5		Brown, medium to coarse SAND, trace Gravel (fill); moist.		0.8	5
		Dark brown, medium to coarse SAND, some Gravel (fill); moist.		0.5	
		Brown, fine to coarse SAND, trace Gravel; moist.		0.8	
		Brown, fine to coarse SAND, little Gravel; moist.		1.0	
10		Dark gray, fine to coarse SAND, little Gravel; moist.		1.1	Slight sanitary odor
		Dark gray, SILT, trace Clay; moist.		1.4	Slight sanitary odor
		Gray, SILT, trace Clay; moist.		1.5	
		Gray, SILT and Clay; moist.		1.4	Slight sanitary odor
15		Gray, medium to coarse SAND, trace Gravel; moist.		1.4	
		Gray, medium to coarse SAND; moist.		1.8	
		Brown, medium to coarse SAND, trace Gravel; moist.		1.8	
		Brown, coarse SAND, some Gravel; moist.		1.8	
20		Brown, fine to coarse SAND, little Gravel; moist.		1.1	
		Brown, fine to medium SAND, trace Silt; moist.		1.5	
25		Gray, SILT, some fine Sand, little Clay; moist.		1.8	
		Gray, CLAY, some Silt; moist.		1.8	
30					

BORING/FEET 0047.0044Y038.GPJ ROUX.GDT 8/28/13



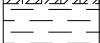
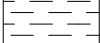
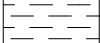
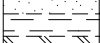
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SOIL BORING LOG

WELL NO. SB-OU1-1	NORTHING 194651.0733	EASTING 998888.6974
PROJECT NO./NAME 0047.0044Y039 / Pfizer Site B and Site D	LOCATION 60-66 Gerry Street/191 Harrison Avenue Brooklyn, New York	
APPROVED BY E. Livingstone	LOGGED BY A. Hoffmann	

Depth, feet	Graphic Log	Visual Description (continued)	Blow Counts per 6"	PID Values (ppm)	REMARKS
		Gray, CLAY and Silt; moist.		2.4	
.....		Gray, SILT, some Clay; moist.		2.4	
.....				2.3	
.....				2.2	
35		Gray, fine SAND, some Silt; moist.		1.7	35
		Gray, SILT, some Clay, trace fine Sand; moist			
.....		Gray, CLAY, some Silt; moist.			
.....					
.....		Gray, CLAY, little Silt; moist.		1.7	
40					Bottom of boring at 40 feet bls. 40

**Remedial Investigation Report
for Operable Unit 1**

APPENDIX C

Monitoring Well Sampling Forms

Project Number: 0047.0044Y

705. Sunny

Date: 6/1/12

Ap-4

Intake depth: 211'

7.72

Vol Purged: 2-4 gallons

14.55

FL

1500

Purge End Time: 12:11:11

Clear

MSP: 1115

MSP: 1130

purge end: 1125

[illegible]

Project Number: 0047.0044Y036

Partly cloudy, ~6 SF

Date:

6/6/12

AP-5

Intake depth:

211-12

7.40

Vol Purged:

~2.5 gallons

15. 22!

10

1020

Purge End Time:

1052

clear.

clear.

Sample Time: 1100.

[illegible]

Project Number: 0047.0044Y036

Partly Cloudy, 70 F

Date:

6/6/12

APQ6

Intake depth:

11	-	2

7.25

Vol Purged:

✓ 3.5 gallons

15.10

DD

149.

Purge End Time:

126

clean

clear.

Sample Time: 1230

[illegible]

Project Number: 0047.0044Y

Rain ~ 65F

Date:

6/4/2

BMW-7S

Intake depth:

~ 7.5

6.85'

Vol Purged:

~ 0.9 gallon

8.95'

EL/DD

1030

Purge End Time:

1102

Close

[illegible]

Project Number: 0047.0044Y

Rain 6SF

6/4/12

BMW-7

17-20'

7.861

~ 3 gallons

 21.75°

DD

1153

1236

Pale brown to clear

Sample Time : 1240.

[illegible]

Project Number: 0047.0044Y

50s. 60s ~~cloudy~~
MW-3 (In)

Date: 6/5/12

MW-3

Intake depth: 16

9.00

Vol Purged: 2 gallons

21.50'

Purge End Time: Label: 1220

Class

Clear

Sample: 1215

Time	DTW (ft bls) (+/- 0.3 ft)	Flow Rate (ml/Min)	Temp (Degree C) (+/- 3%)	Conductivity (mS/cm) (+/- 3%)	DO (mg/L) (+/- 10%)	pH (+/- 0.1 SU)	ORP (mV) (+/- 10)	Turbidity (NTU) (+/- 10%)
1146	9.04	200	15.45	1.06	1.08	6.43	92	15.5
1145	9.02	200	15.26	1.07	0.78	6.42	91	10.1
1150	9.02	200	15.30	1.07	0.65	6.42	91	6.7
1153	9.02	200	15.18	1.07	0.56	6.42	90	5.2
1156	9.02	200	15.16	1.08	0.57	6.42	89	4.7
1159	9.02	200	15.14	1.08	0.54	6.41	88	3.5
1202	9.02	200	15.13	1.08	0.51	6.41	85	3.2
1205	9.02	200	15.14	1.09	0.50	6.41	82	3.4
1208	9.02	200	15.14	1.09	0.47	6.40	79	3.56
1211	9.02	200	15.13	1.09	0.52	6.40	76	3.56
1214	9.02	200	15.05	1.10	0.46	6.39	73	3.0
~~1217~~								
~~1220~~								
~~1223~~								
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~~2341~~								
~~2344~~								
~~2347~~								

Project Number: 0047.0044Y

SOS, 100r, mostly sunny
MW-7

Date:

6/5/12

MW-7

Intake depth:

970

7.71

Vol Purged:

~~2~~ 2 gallons

21.50'

EL

1003

Purge End Time:

label = 1045

Crab

Code

purp eng

sample: 1051

[illegible]

Project Number: 0047.0044Y

70s SAVING
GWS-out: 10 | 65-70: 14

Date: 6/7/12

Intake depth: ~ 10.1

7.67

Vol Purged: 2 2 follows

62-78' Silty loess

71

0977

Purge End Time: 1800

dark, yellow color

Label: 1000

[illegible]

Project Number: 0047.0044Y

60S 70S Sunny

Date: 6/27/12

GWS-001-10	1

Intake depth: 246" 12

11.28

Vol Purged: 2.5 gallons

47.35 (silty bottom)

Euclid

0825

Purge End Time: 0905

Clear to silty

to

label: 0910

sample @ 0905

*out of range

Project Number: 0047.0044Y

Weather: 30s windy sunny Date: 3-14-13
Well ID: MW-D1 Intake depth: 14.5'
DTW: 7.91 Vol Purged: < 5 gal/well
DTB: 18.80
Sampler: J Kendrot
Purge Start: 1524 Purge End Time: 1552
Purge Water
Description: clear no sheen/smell

[illegible]

Sample time
on bottle 1607

sample time
1552

Project Number: 0047.0044Y

Weather:	30S, Sunny, Windy
Well ID:	MW-D1 I
DTW:	7.75
DTB:	24.10
Sampler:	15C
Purge Start:	1525
Purge Water	
Description:	clear, no odor

Date: 3-14-13
Intake depth: 228'
Vol Purged: 1.5 gal
Large End Time: 1550

[illegible]

sample time 1550
label time 1555

Project Number: 0047.0044Y

30's, windy, partly cloudy Date: 3-14-13
MI-1-07 Intake month: 12'

MW-D2

Intake depth: ~ 17'

7.96

Vol Purged: 2 gal

1889

FC

1439

Purge End Time: 1509

Clear

[illegible]

Sample time 1509

label time 1510

Project Number: 0047.0044Y

30s windy sunny
MW-D2D

Date: 3/14/13

MW-D210

Intake depth: 24.5

7.80

Vol Purged: < 5 gal / well

28.83

J. Kendrot

1438 Pu

Purge End Time: 1512

clean no smell/shine

clean no smell/shine

五

sample time
on bottle 1507

Sample time
1513

Project Number: 0047.0044Y

30s, windy, pty cloudy Date: 3-14-13

D-3T (MW-D3#)

Intake depth: 13

7.16

-Vol Purged: 25 gal./well

14.75

JK

1340

Purge End Time: 1410

clear no stain / smell

clear no stain / smell

[illegible]

DUP taken
DUP - 031415
1425

Sample time
on bottle 1423

sample time
1410

Project Number: 0047.0044Y

Description:

30s, windy, pty cloudy
MW-D3E Inta

Date: 3-14-13

Intake depth: ~ 26

Vol Purged: ~2 gal

7.76

28.26

10

1340

Purge End Time: 4/2

clear

[illegible]

sample time 14/12

label time 1420

**Remedial Investigation Report
for Operable Unit 1**

APPENDIX D

Monitoring Well Construction Logs



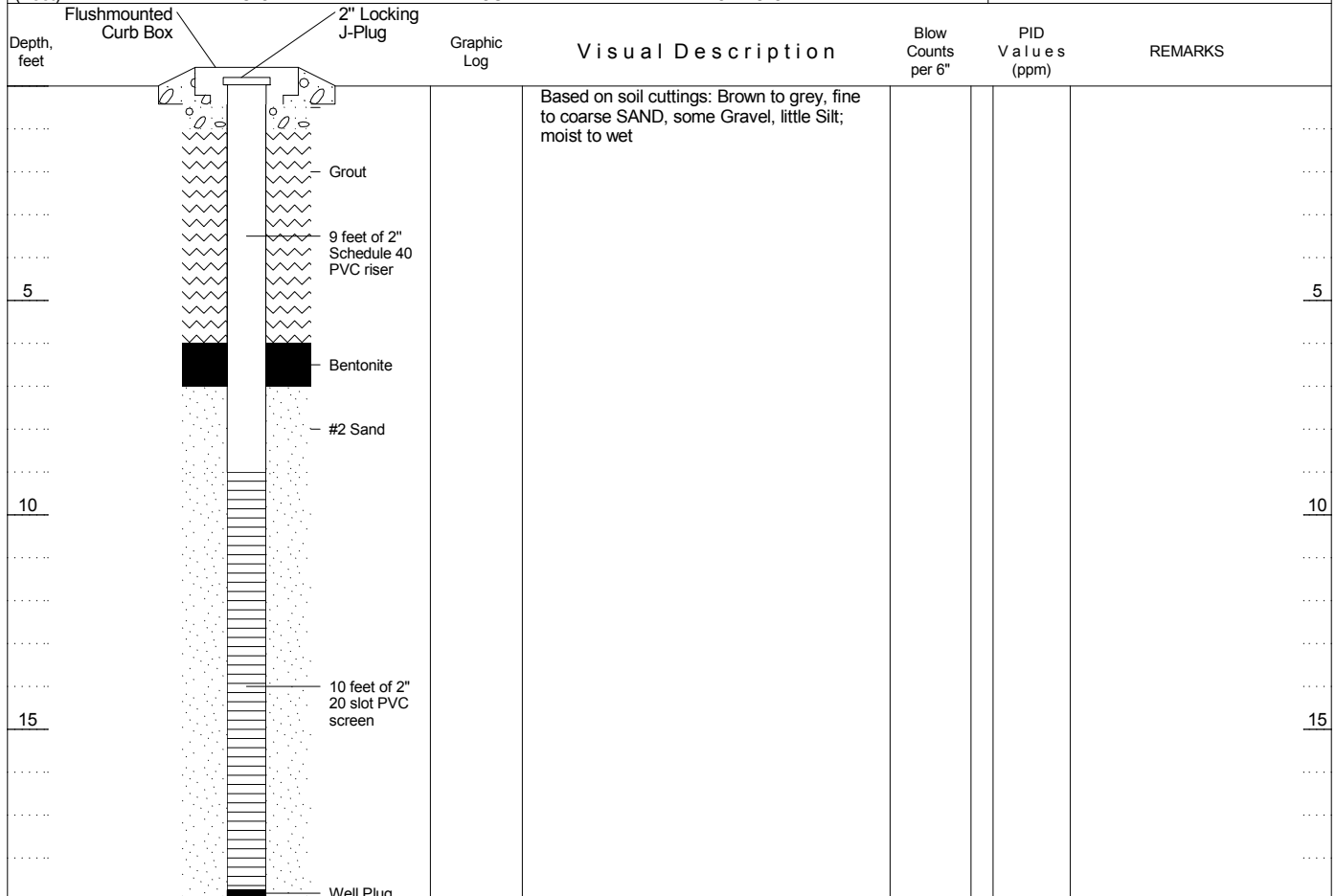
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WELL CONSTRUCTION LOG

WELL NO. MW-D1	NORTHING 5423.7	EASTING 5781.1
PROJECT NO./NAME 0047.0044Y039 / Pfizer Site B and Site D		LOCATION 60-66 Gerry Street/191 Harrison Avenue
APPROVED BY W. Kwan	LOGGED BY A. Hoffmann	Brooklyn, New York
DRILLING CONTRACTOR/DRILLER Roux / J. Freijomil		GEOGRAPHIC AREA Former Arlington Press
DRILL BIT DIAMETER/TYPE 4.25 inch / Auger	BOREHOLE DIAMETER 8-inches	DRILLING EQUIPMENT/METHOD Geoprobe 6620 DT / Geoprobe
CASING MAT./DIA. SCH 40 PVC / 2-inch	SCREEN: TYPE Slotted	SAMPLING METHOD Geoprobe 6620 DT / Geoprobe
TOTAL LENGTH 10.0ft		START-FINISH DATE 2/21/13-2/21/13
ELEVATION OF: (Feet)	GROUND SURFACE 13.01	TOP OF WELL CASING 12.68
TOP & BOTTOM SCREEN 4.0 / -6.0		GRAVEL PACK SIZES More #2



BORING/FEET 0047.0044Y038.GPJ ROUX.GDT 8/28/13



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WELL CONSTRUCTION LOG

WELL NO. MW-D11	NORTHING 5425.6	EASTING 5779.5
PROJECT NO./NAME 0047.0044Y039 / Pfizer Site B and Site D	LOCATION 60-66 Gerry Street/191 Harrison Avenue Brooklyn, New York	
APPROVED BY W. Kwan	LOGGED BY A. Hoffmann	
DRILLING CONTRACTOR/DRILLER Roux / J. Freijomil	GEOGRAPHIC AREA Former Arlington Press	
DRILL BIT DIAMETER/TYPE 4.25 inch / Auger	BOREHOLE DIAMETER 8-inches	DRILLING EQUIPMENT/METHOD Geoprobe 6620 DT / Geoprobe
CASING MAT./DIA. SCH 40 PVC / 2-inch	SCREEN: TYPE Slotted	SAMPLING METHOD Geoprobe 6620 DT / Geoprobe
ELEVATION OF: (Feet)	GROUND SURFACE 12.92	TOP OF WELL CASING 12.52
		TOP & BOTTOM SCREEN -7.1 / -17.1
		GRAVEL PACK SIZES Morie #2

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
		Based on soil cuttings: Brown to grey, fine to coarse SAND, some Gravel, little Silt; moist to wet			
5					5
10					10
15					15
20					20
25					25
30					30

BORING/FEET 0047.0044Y038.GPJ ROUX.GDT 8/28/13



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WELL CONSTRUCTION LOG

WELL NO. MW-D2	NORTHING 5452.6	EASTING 5763.3
PROJECT NO./NAME 0047.0044Y039 / Pfizer Site B and Site D	LOCATION 60-66 Gerry Street/191 Harrison Avenue Brooklyn, New York	
APPROVED BY W. Kwan	LOGGED BY A. Hoffmann	
DRILLING CONTRACTOR/DRILLER Roux / J. Freijomil	GEOGRAPHIC AREA Former Arlington Press	
DRILL BIT DIAMETER/TYPE 4.25 inch / Auger	BOREHOLE DIAMETER 8-inches	DRILLING EQUIPMENT/METHOD Geoprobe 6620 DT / Geoprobe
CASING MAT./DIA. SCH 40 PVC / 2-inch	SCREEN: TYPE Slotted	SAMPLING METHOD Geoprobe 6620 DT / Geoprobe
	MAT. SCH 40 PVC	TOTAL LENGTH 10.0ft
		DIA. 2-inch
		SLOT SIZE 20-Slot
ELEVATION OF: (Feet)	GROUND SURFACE 12.92	TOP OF WELL CASING 12.73
		TOP & BOTTOM SCREEN 3.9 / -6.1
		GRAVEL PACK SIZES More #2

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
		Based on soil cuttings: Brown to grey, fine to coarse SAND, some Gravel, little Silt; moist to wet			
5					5
10					10
15					15



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WELL CONSTRUCTION LOG

WELL NO. MW-D2I	NORTHING 5449.6	EASTING 5764.8
PROJECT NO./NAME 0047.0044Y039 / Pfizer Site B and Site D	LOCATION 60-66 Gerry Street/191 Harrison Avenue Brooklyn, New York	
APPROVED BY W. Kwan	LOGGED BY A. Hoffmann	
DRILLING CONTRACTOR/DRILLER Roux / J. Freijomil	GEOGRAPHIC AREA Former Arlington Press	
DRILL BIT DIAMETER/TYPE 4.25 inch / Auger	BOREHOLE DIAMETER 8-inches	DRILLING EQUIPMENT/METHOD Geoprobe 6620 DT / Geoprobe
CASING MAT./DIA. SCH 40 PVC / 2-inch	SCREEN: TYPE Slotted	SAMPLING METHOD Geoprobe 6620 DT / Geoprobe
ELEVATION OF: (Feet)	GROUND SURFACE 12.90	TOP OF WELL CASING 12.63
		TOP & BOTTOM SCREEN -7.1 / -17.1
		GRAVEL PACK SIZES Morie #2

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
		Based on soil cuttings: Brown to grey, fine to coarse SAND, some Gravel, little Silt; moist to wet			
5					5
10					10
15					15
20					20
25					25
30					30

BORING/FEET 0047.0044Y038.GPJ ROUX.GDT 8/28/13



ROUX ASSOCIATES, INC.
Environmental Consulting
& Management

209 Shafter Street
Islandia, NY 11749
Telephone: (631) 232-2600
Fax: (631) 232-9898

Page 1 of 1

WELL CONSTRUCTION LOG

WELL NO. MW-D3	NORTHING 5453.2	EASTING 5789.5
PROJECT NO./NAME 0047.0044Y039 / Pfizer Site B and Site D	LOCATION 60-66 Gerry Street/191 Harrison Avenue Brooklyn, New York	
APPROVED BY W. Kwan	LOGGED BY A. Hoffmann	
DRILLING CONTRACTOR/DRILLER ADT / B. Cruz	GEOGRAPHIC AREA Former Arlington Press	
DRILL BIT DIAMETER/TYPE 4.25 inch / Auger	BOREHOLE DIAMETER 8-inches	DRILLING EQUIPMENT/METHOD Geoprobe 6620 DT / Geoprobe
CASING MAT./DIA. SCH 40 PVC / 2-inch	SCREEN: TYPE Slotted	SAMPLING METHOD Geoprobe 6620 DT / Geoprobe
	MAT. SCH 40 PVC	TOTAL LENGTH 10.0ft
		DIA. 2-inch
		SLOT SIZE 20-Slot
ELEVATION OF: (Feet)	GROUND SURFACE 13.13	TOP OF WELL CASING 12.84
		TOP & BOTTOM SCREEN 4.1 / -5.9
		GRAVEL PACK SIZES More #2

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
		Based on soil cuttings: Brown to grey, fine to coarse SAND, some Gravel, little Silt; moist to wet			
5					5
10					10
15					15



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Page 1 of 1

WELL CONSTRUCTION LOG

WELL NO. MW-D31	NORTHING 5450.7	EASTING 5792
PROJECT NO./NAME 0047.0044Y039 / Pfizer Site B and Site D	LOCATION 60-66 Gerry Street/191 Harrison Avenue Brooklyn, New York	
APPROVED BY W. Kwan	LOGGED BY A. Hoffmann	
DRILLING CONTRACTOR/DRILLER ADT / B. Cruz	GEOGRAPHIC AREA Former Arlington Press	
DRILL BIT DIAMETER/TYPE 4.25 inch / Auger	BOREHOLE DIAMETER 8-inches	DRILLING EQUIPMENT/METHOD Geoprobe 6620 DT / Geoprobe
CASING MAT./DIA. SCH 40 PVC / 2-inch	SCREEN: TYPE Slotted	SAMPLING METHOD Geoprobe 6620 DT / Geoprobe
ELEVATION OF: (Feet)	GROUND SURFACE 13.06	TOP OF WELL CASING 12.50
		TOP & BOTTOM SCREEN -6.9 / -16.9
		GRAVEL PACK SIZES Morie #2

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
		Based on soil cuttings: Brown to grey, fine to coarse SAND, some Gravel, little Silt; moist to wet			
5					5
10					10
15					15
20					20
25					25
30					30

BORING/FEET 0047.0044Y038.GPJ ROUX.GDT 8/28/13

**Remedial Investigation Report
for Operable Unit 1**

APPENDIX E

Test Pit Photographs



Photo 1: Test pit TPD-1.



Photo 2: Section of piping unearthed during excavation of test pit TPD-1.



Photo 3: Test pit TPD-2.



Photo 4: Intact brick wall in test pit TPD-2.



Photo 5: View of test pit TPD-3 parallel and adjacent to Building 25A.



Photo 6: View of corner of test pit TPD-3,.



Photo 7: View of test pit TPD-3 perpendicular to Building 25A.



Photo 8: Excavated materials in portion of test pit TPD-3 perpendicular to Building 25A.

**Remedial Investigation Report
for Operable Unit 1**

APPENDIX F

Community Air Monitoring Data

Community Air Monitoring
Pfizer Site B and Site D OU-1
Brooklyn, NY

Date	Location	Time	Reading (PPM)	Notes
3/14/2012	MIP-16	7:25:00 AM	0.0	
	MIP-14	11:00:00 AM	0.0	
	MIP-15	1:00:00 PM	0.0	
	MIP-36	2:00:00 PM	0.0	
3/15/2012	MIP-18	8:30:00 AM	0.0	
	MIP-17	10:30:00 AM	0.0	
	MIP-6	1:00:00 PM	0.0	
3/16/2012	MIP-26	9:00:00 AM	1.8	Fumes from generator and pre-clearance activities; area vented
	MIP-26	9:10:00 AM	2.3	
	MIP-28	11:15:00 AM	1.6	
	MIP-23	12:20:00 PM	0.8	
	MIP-32	1:30:00 PM	0.0	
3/19/2012	MIP-20	10:00:00 AM	1.1	
	MIP-19	12:20:00 PM	1.0	
3/20/2012	MIP-29	8:00:00 AM	0.5	
	MIP-33	9:50:00 AM	0.0	
	MIP-34	2:00:00 PM	0.0	
3/21/2012	MIP-22	8:45:00 AM	0.2	
	MIP-22	9:30:00 AM	0.0	
	MIP-21	10:15:00 AM	0.2	
	MIP-21	11:05:00 AM	0.2	
	MIP-27	11:40:00 AM	0.0	
	MIP-27	12:20:00 PM	0.0	
	MIP-25	1:15:00 PM	0.1	
	MIP-25	1:50:00 PM	0	
	MIP-35	2:20:00 PM	0.0	
	MIP-35	2:50:00 PM	0.0	
3/22/2012	MIP-30	8:15:00 AM	0.0	
	MIP-30	9:00:00 AM	0.6	
	MIP-31	9:45:00 AM	0.6	
	MIP-31	10:25:00 AM	0.8	
	MIP-7A	11:15:00 AM	0.1	
	MIP-7A	11:55:00 AM	0.0	
	MIP-1	12:20:00 PM	0.0	
	MIP-1	1:00:00 PM	0.0	
	MIP-2	1:45:00 PM	0.0	
	MIP-2	2:25:00 PM	0.0	
	MIP-3	2:25:00 PM	0.0	
	MIP-3	3:15:00 PM	0.0	
3/23/2012	MIP-5	9:00:00 AM	0.0	
	MIP-5	10:25:00 AM	0.0	
	MIP-5	11:05:00 AM	0.0	
	MIP-4	11:15:00 AM	0.0	
	MIP-4	11:55:00 AM	0.0	
	MIP-9	1:00:00 PM	0.0	
	MIP-9	1:30:00 PM	0.0	
	MIP-8	1:45:00 PM	0.0	

Community Air Monitoring
Pfizer Site B and Site D OU-1
Brooklyn, NY

Date	Location	Time	Reading (PPM)	Notes
	MIP-8	2:30:00 PM	0.0	
4/2/2012	MIP-6	9:30:00 AM	0.0	
	MIP-6	10:00:00 AM	0.4	
	MIP-8	10:15:00 AM	0.2	
	MIP-8	10:45:00 AM	0.1	
	MIP-35	12:25:00 PM	0.1	
4/6/2012	MIP-35	8:10:00 AM	0.0	
	MIP-35	8:45:00 AM	0.2	
	MIP-22	9:50:00 AM	0.6	
	MIP-22	10:30:00 AM	0.5	
	MIP-28	11:05:00 AM	0.5	
	MIP-28	11:30:00 AM	0.5	
	MIP-33	1:05:00 PM	0	
	MIP-33	1:55:00 PM	0	
5/29/2012	SB-OU1-1	9:40:00 AM	0.6	
	SB-OU1-1	9:50:00 AM	0.8	
	SB-OU1-1	10:05:00 AM	1.5	
	SB-OU1-1	10:15:00 AM	1.8	
	SB-OU1-1	10:30:00 AM	1.5	
	SB-OU1-1	12:30:00 PM	1.8	
	SB-OU1-1	1:30:00 PM	2.6	
	SB-OU1-1	2:25:00 PM	1.7	
5/30/2012	GWS-OU1-10	8:30:00 AM	0	
	GWS-OU1-10	8:55:00 AM	0	
	GWS-OU1-10	11:45:00 AM	0	
5/31/2012	GWS-OU1-10	8:50:00 AM	0	
	GWS-OU1-10	9:25:00 AM	0.1	
	GWS-OU1-10	4:00:00 PM	0	
6/4/2012	GWS-OU1-3	1:00:00 PM	0	
	GWS-OU1-3	1:40:00 PM	0.2	
	GWS-OU1-3	2:00:00 PM	0	
	GWS-OU1-3	2:10:00 PM	0.1	
6/6/2012	GWS-OU1-2	11:05:00 AM	0.1	
	GWS-OU1-2	11:50:00 AM	0.1	
	GWS-OU1-1	1:20:00 PM	0	
	GWS-OU1-1	3:30:00 PM	0	
6/28/2012	GWS-OU1-5	11:55:00 AM	0.8	
	GWS-OU1-5	12:15:00 PM	1.4	
	GWS-OU1-7	3:00:00 PM	0.5	
	GWS-OU1-7	3:25:00 PM	0.3	
6/29/2012	GWS-OU1-6	9:35:00 AM	0.7	
	GWS-OU1-6	10:05:00 AM	0.8	
	GWS-OU1-8	1:20:00 PM	1.6	
7/2/2012	GWS-OU1-12	8:10:00 AM	0.5	
	GWS-OU1-12	8:40:00 AM	0.4	
	GWS-OU1-14	9:40:00 AM	0.7	
	GWS-OU1-14	10:45:00 AM	0.4	
	GWS-OU1-13	12:25:00 PM	0.3	

Community Air Monitoring
Pfizer Site B and Site D OU-1
Brooklyn, NY

Date	Location	Time	Reading (PPM)	Notes
	GWS-OU1-13	1:00:00 PM	0.4	
	GWS-OU1-13	1:35:00 PM	0.8	
7/19/2012	TPD-1	9:00:00 AM	3	
		10:30:00 AM	0.4	
		10:45:00 AM	1.1	
		1:20:00 PM	0.4	
		1:35:00 PM	0.9	
7/20/2012	TPD-1	8:25:00 AM	2.1	
		9:00:00 AM	1.5	
		9:35:00 AM	1.5	
		10:05:00 AM	1.1	

**Remedial Investigation Report
for Operable Unit 1**

APPENDIX G

Data Usability Summary Reports

Data Validation Services

120 Cobble Creek Road P.O. Box 208
North Creek, NY 12853

Phone 518-251-4429
harry@frontiernet.net

September 5, 2012; Revised December 10, 2013

Wai Kwan
Roux Associates
209 Shafter St.
Islandia, NY 11747

RE: Data Usability Summary Report for the Pfizer Site
HC-V SDG Nos. 2053022, 2060131, 2060529, 2060701, 2060734, 2060735, 2060736,
2060335, 2060337, and 2072032

Dear Mr. Kwan:

Review has been completed for the analytical data packages noted above, generated by Hampton Clark-Veritech Laboratory, that pertain to samples collected between 05/30/12 and 07/27/12 at the Pfizer site. Ten soil samples, three soil field duplicates, nine aqueous samples, and one aqueous field duplicate were processed for volatile analytes (TCL or full list), TCL semivolatiles, TCL pesticides, TCL PCBs, TCL herbicides, TAL metals, and total cyanide. Twenty-six additional soil samples, two soil field duplicates, twenty-nine additional aqueous samples, and three aqueous field duplicates were processed for volatiles (TCL or full list). Seven of the aqueous samples and a field duplicate were also analyzed for filtered metals. Two of the soil samples, one of the aqueous samples, and two of the field duplicates were also processed for Total Organic Carbon (TOC).

Sample matrix spikes, blind field duplicates, field blanks, and trip blanks were also processed. The analytical methods that were utilized are those of the USEPA SW846 6000/7000/8000/9000.

The data packages submitted contain full deliverables for validation, but this DUSR is generated from review of the summary form information, with full validation review of sample raw data, and limited review of associated QC raw data. The reported summary forms have been reviewed for application of validation qualifiers, using guidance from the USEPA Region 2 validation SOPs, the USEPA National Functional Guidelines for Data Review, the specific laboratory methodologies, and professional judgment. The following items were reviewed:

- * Laboratory Narrative Discussion
- * Custody Documentation
- * Holding Times
- * Surrogate and Internal Standard Recoveries
- * Matrix Spike (MS) Recoveries/Duplicate Correlations
- * Field Duplicate Correlations

- * Preparation/Calibration/Trip/Field Blanks
- * Laboratory Control Samples (LCSs)
- * Instrumental Tunes
- * Calibration/Low Level Standards
- * ICP Serial Dilution
- * Instrument IDLs
- * Sample Result Verification

The data review includes evaluation of the specific items noted in The NYS DER-10 Appendix B section 2.0 (c).

The items listed above that show deficiencies are discussed within the text of this narrative. The laboratory QC forms illustrating the excursions can be found within the laboratory data packages.

In summary, sample results are usable either as reported or with minor qualification/edit, with the following exceptions:

- one volatile analyte in all samples
- one volatile analyte in the aqueous samples
- the four herbicide analytes in GWS-OU1-6/9-11

Non-compliant processing issues were observed, including organic LCS and MS acceptance ranges and omitted low level standards for the metals fraction.

Copies of the sample identification summaries are attached to this text, and should be reviewed in conjunction with this report. Also included with the report are validation qualifier definitions and client results tables that are manually annotated to reflect the qualifications recommended within this report.

The following text discusses quality issues of concern.

Chains-of-Custody

Three of the trip blanks were filled (5/25/12) well before the associated samples were collected, and the holding time from fill to analysis of those trip blanks exceeded the allowable holding time. Therefore, the results of those blanks have been qualified as estimated in value.

Edits to custodies should have been dated and initialed.

The final laboratory receipt signature and cooler temperature were not present on the second page of the custodies received 07/03/12.

Blind Duplicate Evaluations

Blind field duplicates were collected at locations GWS-OU1-3/9-12, GWS-OU1-2/25-26, GWS-OU1-1/8-13, BMW-7, GWS-OU1-2/25-30, GWS-OU1-7/10-15 (water), GWS-OU1-7/10-13 (soil), GWS-OU1-11/14-15, and GWS-OU1-9/25-30.

Field duplicate correlations were within validation guidelines of 50%RPD/ ± 2 XCRDL for soils or 35%RSD/ $\pm$ CRDL for aqueous samples, with the following exceptions, results for which are qualified as estimated in the parent sample and its respective duplicate:

- acetone, ethanol, methyl cyclohexane, isopropylbenzene, fluornathene, phenanthrene, and pyrene

in GWS-OU1-3/9-12. Detected volatile results for this field duplicate are qualified as estimated due to a matrix response.

- cis-1,2-dichloroethene, trichloroethene, and tetrachloroethene in GWS-OU1-2/25-26 (soil) and GWS-OU1-2/25-30 (water). Detected volatile results for the parent sample GWS-OU1-2/25-30 and its duplicate are qualified as estimated due to a matrix response
- trichloroethene and tetrachloroethene in GWS-OU1-7/10-13
- dibenzofuran, phenanthrene, barium, and magnesium in GWS-OU1-11/14-15

Volatile Analyses by EPA 8260B

Results for 2-chloroethyl vinyl ether are rejected, not usable, for the aqueous samples and blanks, due to the inherent instability of that analyte in a preserved matrix.

The results for 1,4-dioxane in all samples are rejected, and not usable, due to inherent poor instrument performance (RRF < 0.01).

Due to poor mass spectral quality, the following results are qualified as tentative in identification and estimated in value due to spectral matrix interferences:

- i-propylbenzene in GWS-OU1-3/9-12
- acetone in DUP-060412/S
- 1,3,5-trimethylbenzene in GWS-OU1-7/10-13

The result of cyclohexane in DUP-060412/S is edited to non-detection at an elevated reporting limit due to very poor mass spectral quality:

Detected results are qualified as estimated in field duplicate DUP-060612/GW due to inconsistencies (approximately two-fold) between the undiluted and diluted analyses of that sample.

The result for acetone in GWS-OU1-3/28-30 is qualified as estimated due to interference in the ion fragment used for quantitation.

The detected values for compounds initially reported with the "E" flag are derived from the dilution analyses of those samples, thus reflecting responses within the established linear range of the instruments.

Results for detected analytes in GWS-OU1-2/25-30 and DUP-060412/S are qualified as estimated due to elevated surrogate standard recoveries in repeated analyses of these samples.

All results for GWS-OU03/25-30 are qualified as estimated due to low recoveries of a surrogate standard on repeated analysis.

The laboratory is using non-compliant broad acceptance ranges for LCS and matrix spike recoveries. The analytical protocol requires that the laboratory generate their own ranges based upon historical data, or use a range of 70% to 130% in the interim. The ranges used by the laboratory are generally 50% to 130%, with a wider range of 20% to 130% for some analytes. Although for this DUSR, qualification is made only for those outside the range that the laboratory utilized, the end-user of the data should be aware that accuracy has not been properly evaluated by the laboratory.

Matrix spikes were evaluated for sixteen analytes on soil samples GWS-OU1-1/8-13, GWS-OU1-2/25-26, GWS-OU1-10/45-47, GWS-OU1-6/20-22, GWS-OU1-11/15-16, and TPD-3, and on aqueous samples AP-4, GWS-OU1-11/10-15, GWS-OU1-2/25-30, and GWS-OU1-6/20-25. Recoveries and duplicate correlations were within, with the laboratory stated ranges, with the exception of the following analytes, results for which are qualified as estimated in the indicate parent samples:

- trichloroethene and tetrachloroethene in GWS-OU1-2/25-26 and GWS-OU1-6/20-22
- tetrachloroethene in GWS-OU1-11/15-16

The laboratory QC summary forms 3 for LCS and MS recoveries/duplicate correlations do not show actual concentrations (or units), but show values at the instrument level concentrations. These forms should show actual concentrations.

Results for t-butyl alcohol in all samples, acrolein in all but three samples, and acetone, 2-butanone, and/or 1,2-dibromo-3-chloropropane in several samples are qualified as estimated due to RRFs < 0.05 (but above 0.01). Many of the continuing calibration standards show outlying responses above 20%D. Although in some cases, there were only a few outlying analyte responses in the standards, in some cases there were many (up to 17). The applicable analyte results are qualified as estimated in the associated samples. The specific affected compounds are not detailed herein, but those specifics are available in the event that a full validation report is required in the future.

Internal standard responses meet validation guidelines and blanks show no contamination.

There is insufficient documentation in the data packages to allow for independent verification of concentration values reported for the medium level analyses. The laboratory was therefore contacted to provide the volumes used in the sample preparation procedure, and the calculation algorithms were verified.

Analysis run logs should show aqueous sample pHs.

Some of the samples were processed at initial dilution due to concentrations of target analytes in those samples. Results for reporting limits of the undetected analytes in those samples are therefore elevated proportionally.

TCL Semivolatiles by EPA 8270C

The results for naphthalene in GWS-OU1-3/9-12 and DUP-060412/S are edited to non-detection due to poor instrument responses (S/N).

The reported detection of benzo(a)pyrene in DUP-060612/S2 is edited to non-detection. The retention time of that response was not correct relative to its associated internal standard, and the response represents a non-target PAH.

The laboratory is using non-compliant broad acceptance ranges for LCS and matrix spike recoveries. The analytical protocol requires that the laboratory generate their own ranges based upon historical data, or use a range of 70% to 130% in the interim. The ranges used by the laboratory are generally 50% to 130%, with a wider range of 20% to 130% for some analytes. Although for this

DUSR, qualification is made only for those outside the range that the laboratory utilized, the end-user of the data should be aware that accuracy has not been properly evaluated by the laboratory.

Matrix spikes were evaluated for sixteen target analytes on soil sample GWS-OU1-1/8-13 and for twenty-four analytes on aqueous samples AP-4 and AP-6. They show recoveries and duplicate correlations that are within laboratory stated ranges.

The laboratory QC summary forms 3 for LCS and MS recoveries/duplicate correlations do not show actual concentrations (or units), but show values at the instrument level concentrations. These forms should show actual concentrations.

Calibrations standards showed acceptable responses, with the following exceptions, results for which are qualified as estimated in the indicated samples:

- benzaldehyde and hexachlorocyclopentadiene in DUP-060612/S2
- hexachlorocyclopentadiene in GWS-OU1-11/14-15, DUP-070312/S, FB-070312, the aqueous samples reported in SDG 2062734, and the soil samples reported in SDG 20612736

TCL Pesticide, TCL PCB, and TCL Herbicide Analyses by EPA 8081A, 8082, and 8151

Results for the herbicides in GWS-OU1-6/9-11 are rejected and not usable due to very high matrix interferences that mask the surrogate standard responses and any potential target analyte responses.

Samples GWS-OU1-6/13-15 and GWS-OU1-8/10-15 were re-extracted for herbicides out of holding time due to a failed extraction. The results for herbicides in those two samples are therefore qualified as estimated, with a likely low bias.

Raw data and QC summary forms relating to the breakdown analyses were not included in the data package. The breakdown data summary can be found encrypted on the analysis run logs, and show acceptable recoveries. These raw data would be requested in the event that full validation is required.

Surrogate standard responses meet validation guidelines.

The laboratory is using non-compliant broad acceptance ranges for LCS and matrix spike recoveries. The analytical protocol requires that the laboratory generate their own ranges based upon historical data, or use a range of 70% to 130% in the interim. The ranges used by the laboratory are generally 50% to 130%, with a wider range of 20% to 130% for some of the analytes. Although for this DUSR, qualification is made only for those outside the range that the laboratory utilized, the end-user of the data should be aware that accuracy has not been properly evaluated by the laboratory.

The matrix spikes were performed as noted below, and they show recoveries and duplicate correlations that are within validation guidelines, when using the laboratory stated ranges:

- pesticides, herbicides, and Aroclors 1016/1260 on soil sample GWS-OU1-1/8-13 and aqueous sample AP-4
- pesticides and PCBs on soil sample GWS-OU1-6/20-22
- herbicides on soil sample GWS-OU1-11/13-15
- pesticides on aqueous sample AP-5

For some samples, the scaling of the chromatograms (which was not to NYS ASP category B requirements) prohibits independent confirmation of reported non-detect results.

Due to limited available volume, matrix spikes of AP-5 were processed for pesticides at a reduced volume of sample, spike solutions, and extract. No significant effect is expected from that variance.

Calibration standard responses are acceptable, with the exception of those for methoxychlor in the standards associated with GWS-OU1-13/10-15. The result for that analyte in the sample has been qualified as estimated, with a possible low bias.

TAL Metals Analyses by EPA 6010B and 7470/7471

Low level concentration standards (at or near the reporting limit concentrations) were not processed, although required by NYS. Therefore, accuracy at the reporting limit has not been evaluated. Although no qualification is made, the end-user of the data should be aware of this omission.

Sample matrix spikes were performed on soil sample GWS-OU1-1/8-13 and the filtered and unfiltered fractions of aqueous sample AP-4. The following elements have outlying recoveries in both matrix spikes of the indicated sample. Results for the affected analytes have been qualified as estimated in the project soil samples. The timeframe across which the matrix spike associations are made is greater than two weeks.

<u>SDG No.</u>	<u>Parent Sample</u>	<u>Element</u>	<u>% Recoveries</u>
2050322	GWS-OU1-1/8-13	Antimony	54 and 52
		Barium	66 and 65

ICP serial dilution evaluations were performed on soil sample GWS-OU1-1/8-13 and the filtered and unfiltered fractions of the aqueous sample AP-4. The following correlations fall above the recommended limit. Detected results for the affected analytes have been qualified as estimated in the project samples of the soil matrix.

<u>SDG No.</u>	<u>Parent Sample</u>	<u>Element</u>	<u>%Difference</u>
2050322	GWS-OU1-1/8-13	Potassium	12
		Manganese	46

Total and filtered fraction concentrations correlate well for the aqueous samples, with the exception of the following, the results for which have been qualified as estimated in both fractions of the indicated samples:

- manganese (22%D) in DUP-060412/GW
- barium (11%D) in BMW-7S
- magnesium (18%D) and manganese (29%D) in AP-5

Holding times were met. Blanks show no contamination above the reporting limit.

The run log for the 6/13/12 ICP analyses reported in SDG 2060529 was not present. The raw data for that sequence was found between the mercury data and the standard preparation logs.

Wet Chemistry Analyses

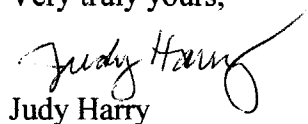
Review was conducted for method compliance, holding times, transcription, calculations, standard and blank acceptability, accuracy and precision, etc., as applicable to each procedure.

Matrix spike/duplicate evaluations were performed for TOC and total cyanide on GWS-OU1-1/8-13 and AP-4, and for total cyanide on AP-5, and show acceptable accuracy and precision.

Control spikes show compliant recoveries. Holding times were met. Blanks show no contamination above the reporting limit.

Please do not hesitate to contact me if you have comments or questions regarding this report.

Very truly yours,

A handwritten signature in cursive script, appearing to read "Judy Harry", is written over the printed name.

Judy Harry

VALIDATION DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.

J The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.

UJ The analyte was not detected. The associated reported quantitation limit is an estimate and may be inaccurate or imprecise.

NJ The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.

R The data are unusable. The analyte may or may not be present.

EMPC The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

**CLIENT and LABORATORY SAMPLE IDs
and CASE NARRATIVES**

HCV Case Narrative/Conformance Summary

Client: Roux Associates
Project: Pfizer Site B & D

HCV Project: 2053022

Hampton-Clarke/Veritech (HC-V) received the following samples on May 30, 2012:

Client ID	HCV Sample ID	Matrix	Analysis
FB-053012	AC66190-001	Aqueous	VO (8260B)
TRIP BLANK-1	AC66190-002	Aqueous	VO (8260B)
GWS-OU1-10/15-18	AC66190-003	Soil	VO (8260B)
GWS-OU1-10/20-22	AC66190-004	Soil	VO (8260B)
GWS-OU1-10/25-30	AC66190-005	Soil	VO (8260B)
FB-060412	AC66297-001	Aqueous	VO (8260B), BNA (8270C), PCB (8082), Pesticides (8081A), Herbicides (8151A), Metals (6010B/7470A), Cyanide (9012B)
TRIP BLANK-3	AC66297-002	Aqueous	VO (8260B)
GWS-OU1-3/9'-12'	AC66297-003	Soil	VO (8260B), BNA (8270C), PCB (8082), Pesticides (8081A), Herbicides (8151A), Metals (6010B/7470A), Cyanide (9012B)
DUP-060412/S	AC66297-004	Soil	VO (8260B), BNA (8270C), PCB (8082), Pesticides (8081A), Herbicides (8151A), Metals (6010B/7470A), Cyanide (9012B)
GWS-OU1-3/28'-30'	AC66297-005	Soil	VO (8260B)
GWS-OU1-2/25-26	AC66341-001	Soil	VO (8260B)
GWS-OU1-2/25-26 MS	AC66341-002	Soil	VO (8260B)
GWS-OU1-2/25-26 MSD	AC66341-003	Soil	VO (8260B)
DUP-060612/S	AC66341-004	Soil	VO (8260B)
GWS-OU1-1/8-13	AC66341-005	Soil	VO (8260B), BNA (8270C), PCB (8082), Pesticides (8081A), Herbicides (8151A), Metals (6010B/7470A), Cyanide (9012B), TOC (9060)
GWS-OU1-1/8-13 MS	AC66341-006	Soil	VO (8260B), BNA (8270C), PCB (8082), Pesticides (8081A), Herbicides (8151A), Metals (6010B/7470A), Cyanide (9012B), TOC (9060)
GWS-OU1-1/8-13 MSD	AC66341-007	Soil	VO (8260B), BNA (8270C), PCB (8082), Pesticides (8081A), Herbicides (8151A), Metals (6010B/7470A), Cyanide (9012B), TOC (9060)
DUP-060612/S2	AC66341-008	Soil	VO (8260B), BNA (8270C), PCB (8082), Pesticides (8081A), Herbicides (8151A), Metals (6010B/7470A), Cyanide (9012B), TOC (9060)
GWS-OU1-1/25-27	AC66341-009	Soil	VO (8260B)

Volatile Organic Analysis:

Acetone was recovered in samples AC66297-004-005 and AC66341-001, 004-005, and 008-009 suggesting laboratory contamination.

Methylene Chloride was recovered in sample AC66341-001 suggesting laboratory contamination.

The Matrix Spike and/or Matrix Spike Duplicate and/or MS/MSD RPD for batches 18507, 18581, and 18497 had recoveries outside QC limits. However, since the associated Method Blank and Laboratory Control Sample were within control, no corrective action was necessary.

Sample AC66297-004 had one or more surrogate recoveries outside QC limits. The sample was reanalyzed confirming recoveries outside QC limits due to matrix interference. The initial is reported and both analyses are included in the report.

Base Neutral/Acid Extractable Analysis:

Data conforms to method requirements.

PCB Analysis:

Data conforms to method requirements.

Pesticide Analysis:

The Matrix Spike and Matrix Spike Duplicate for batch 14523 had recoveries outside QC limits. However, since the associated Method Blank and Laboratory Control Sample were within control, no corrective action was necessary.

Herbicide Analysis:

The Matrix Spike and/or Matrix Spike Duplicate for batches 14534 and 14555 had recoveries outside QC limits. However, since the associated Method Blank and Laboratory Control Sample were within control, no corrective action was necessary.

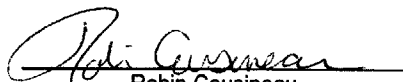
Metals Analysis:

The Matrix Spike and Matrix Spike Duplicate for batch 16422 had recoveries outside QC limits. However, since the associated Method Blank and Laboratory Control Sample were within control, no corrective action was necessary. Also, the serial dilution is outside QC limits for one or more analytes, suggesting matrix interference.

Wet Chemistry Analysis:

The MS/MSD RPD for TOC for batch 81 recovered outside QC limits. However, since the associated Method Blank and Laboratory Control Sample were within control, no corrective action was necessary.

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Robin Cousineau
Quality Assurance Director

Or

Stanley Gilewicz
Laboratory Director

7/3/2012

Date

HCV Case Narrative/Conformance Summary

Client: Roux Associates
Project: Pfizer Site B & D

HCV Project: 2060131

Hampton-Clarke/Veritech (HC-V) received the following samples on June 1, 2012:

<u>Client ID</u>	<u>HCV Sample ID</u>	<u>Matrix</u>	<u>Analysis</u>
GWS-OU1-10/45'-47'	AC66252-001	Soil	VO (8260B)
GWS-OU1-10/48'-70'	AC66252-002	Soil	VO (8260B)
Trip Blank 2	AC66252-003	Aqueous	VO (8260B)
FB-053112	AC66252-004	Aqueous	VO (8260B)

Volatile Analysis:

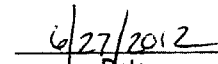
Data conforms to method requirements.

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Robin Cousineau
Quality Assurance Director

Or

Stanley Gilewicz
Laboratory Director


Date

HCV Case Narrative/Conformance Summary

Client: Roux Associates
Project: Pfizer Site B & D

HCV Project: 2060529

Hampton-Clarke/Veritech (HC-V) received the following samples on June 01 and 05, 2012:

<u>Client ID</u>	<u>HCV Sample ID</u>	<u>Matrix</u>	<u>Analysis</u>
Deleted	AC66246-001		
Deleted	AC66246-002		
TRIP BLANK2	AC66246-003	Aqueous	VO (82060B)
Deleted	AC66246-004	Aqueous	
FB-060112	AC66246-005	Aqueous	VO (82060B), BNA (8270C), PCB (8082), Pesticides (8081A), Herbicides (8151A), Metals (6010B/7470A), Cyanide (9012B)
AP-4 U	AC66246-006	Aqueous	VO (82060B), BNA (8270C), PCB (8082), Pesticides (8081A), Herbicides (8151A), Metals (6010B/7470A), Cyanide (9012B), TOC (SM5310B)
AP-4 F	AC66246-007	Aqueous	Metals (6010B/7470A),
AP-4/MS U	AC66246-008	Aqueous	VO (82060B), BNA (8270C), PCB (8082), Pesticides (8081A), Herbicides (8151A), Metals (6010B/7470A), Cyanide (9012B), TOC (SM5310B)
AP-4/MS F	AC66246-009	Aqueous	Metals (6010B/7470A),
AP-4/MSD U	AC66246-010	Aqueous	VO (82060B), BNA (8270C), PCB (8082), Pesticides (8081A), Herbicides (8151A), Metals (6010B/7470A), Cyanide (9012B), TOC (SM5310B)
AP-4/MSD F	AC66246-011	Aqueous	Metals (6010B/7470A),
FB-060512	AC66298-001	Aqueous	VO (82060B), BNA (8270C), PCB (8082), Pesticides (8081A), Herbicides (8151A), Metals (6010B/7470A), Cyanide (9012B)
MW-7 U	AC66298-002	Aqueous	VO (82060B), BNA (8270C), PCB (8082), Pesticides (8081A), Herbicides (8151A), Metals (6010B/7470A), Cyanide (9012B)
MW-7 F	AC66298-003	Aqueous	Metals (6010B/7470A),
MW-3 U	AC66298-004	Aqueous	VO (82060B), BNA (8270C), PCB (8082), Pesticides (8081A), Herbicides (8151A), Metals (6010B/7470A), Cyanide (9012B)
MW-3 F	AC66298-005	Aqueous	Metals (6010B/7470A),
BMW-7 U	AC66298-006	Aqueous	VO (82060B), BNA (8270C), PCB (8082), Pesticides (8081A), Herbicides (8151A), Metals (6010B/7470A), Cyanide (9012B)
BMW-7 F	AC66298-007	Aqueous	Metals (6010B/7470A),
DUP-060412/GW U	AC66298-008	Aqueous	VO (82060B), BNA (8270C), PCB (8082), Pesticides (8081A), Herbicides (8151A), Metals (6010B/7470A), Cyanide (9012B)
DUP-060412/GW F	AC66298-009	Aqueous	Metals (6010B/7470A),
BMW-7S U	AC66298-010	Aqueous	VO (82060B), BNA (8270C), PCB (8082), Pesticides (8081A), Herbicides (8151A), Metals (6010B/7470A), Cyanide (9012B)
BMW-7S F	AC66298-011	Aqueous	Metals (6010B/7470A),

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Volatile Organic Analysis:

The Matrix Spike for batch 18120 has recovery outside QC limits. However, since the associated Method Blank and Laboratory Control Sample were within control, no corrective action was necessary.

Base Neutral/Acid Extractable Analysis:

Sample AC66246-010 and Matrix Spike Duplicate for batch 14491 had one or more surrogates outside QC limits.

PCB Analysis:

Data conforms to method requirements.

Pesticide Analysis:

Data conforms to method requirements.

Herbicide Analysis:

Data conforms to method requirements.

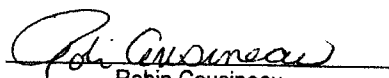
Metals Analysis:

The serial dilution for batches 16419 and 16420 is outside QC limits for one or more analytes, suggesting matrix interference.

Wet Chemistry Analysis:

The RPD between the QC sample and its duplicate has recovery outside QC limits in batch 126-TOC. The RPD criteria were met between the MS/MSD.

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Robin Cousineau
Quality Assurance Director

Or

Stanley Gilewicz
Laboratory Director

6/28/2012
Date

HCV Case Narrative/Conformance Summary

Client: Roux Associates
Project: Pfizer Site B& D

HCV Project: 2060701

Hampton-Clarke/Veritech (HC-V) received the following samples on June 06 and 07, 2012:

<u>Client ID</u>	<u>HCV Sample ID</u>	<u>Matrix</u>	<u>Analysis</u>
AP-5 U	AC66340-001	Aqueous	VO (82060B), BNA (8270C), PCB (8082), Pesticides (8081A), Herbicides (8151A), Metals (6010B/7470A), Cyanide (9012B)
AP-5 F	AC66340-002	Aqueous	Metals (6010B/7470A)
AP-6 U	AC66340-003	Aqueous	VO (82060B), BNA (8270C), PCB (8082), Pesticides (8081A), Herbicides (8151A), Metals (6010B/7470A), Cyanide (9012B)
AP-6 F	AC66340-004	Aqueous	Metals (6010B/7470A)
GWS-OU1-3/8-13	AC66340-005	Aqueous	VO (82060B)
GWS-OU1-3/25-30	AC66340-006	Aqueous	VO (82060B)
GWS-OU1-2/25-30	AC66340-007	Aqueous	VO (82060B)
GWS-OU1-2/25-30 MS	AC66340-008	Aqueous	VO (82060B)
GWS-OU1-2/25-30 MSD	AC66340-009	Aqueous	VO (82060B)
DUP-060612/GW	AC66340-010	Aqueous	VO (82060B)
TRIP BLANK-4	AC66340-011	Aqueous	VO (82060B)
FB-060612	AC66340-012	Aqueous	VO (82060B), BNA (8270C), PCB (8082), Pesticides (8081A), Herbicides (8151A), Metals (6010B/7470A), Cyanide (9012B)
GWS-OU1-1/25-30	AC66353-001	Aqueous	VO (82060B)
GWS-OU1-1/8-13	AC66353-002	Aqueous	VO (82060B)
TRIP BLANK-5	AC66353-003	Aqueous	VO (82060B)

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Volatile Organic Analysis:

Sample AC66340-006 had one or more surrogate recoveries outside QC limits. The sample was reanalyzed confirming recoveries outside QC limits due to matrix interference.

Samples AC66340-007 and AC66340-008 MS had one or more surrogate recoveries outside QC limits.

Base Neutral/Acid Extractable Analysis:

Sample AC66340-012 had one or more surrogates outside QC limits.

The surrogates were double spiked in sample AC66340-003. Percent recoveries on form 2 were adjusted to reflect spiking error.

PCB Analysis:

Data conforms to method requirements.

Pesticide Analysis:

Data conforms to method requirements.

Herbicide Analysis:

Data conforms to method requirements.

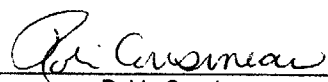
Metals Analysis:

The serial dilution for batch 16420 is outside QC limits for one or more analytes, suggesting matrix interference.

Wet Chemistry Analysis:

Data conforms to method requirements.

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Robin Cousineau
Quality Assurance Director

Or

Stanley Gilewicz
Laboratory Director

7/2/2012
Date
7/2/2012

HCV Case Narrative/Conformance Summary

Client: Roux Associates
Project: Pfizer Site B& D

HCV Project: 2062734

Hampton-Clarke/Veritech (HC-V) received the following samples on June 27, 29 and July 2, 2012:

<u>Client ID</u>	<u>HCV Sample ID</u>	<u>Matrix</u>	<u>Analysis</u>
GWS-OU1-4/25'-30'	AC66761-001	Aqueous	VO (82060B)
TRIP BLANK-6	AC66761-002	Aqueous	VO (82060B)
FB-062712	AC66761-003	Aqueous	VO (82060B)
FB 062812	AC66855-001	Aqueous	VO (82060B)
GWS-OU1-5/5'-10'	AC66855-002	Aqueous	VO (82060B)
GWS-OU1-5/25-30	AC66855-003	Aqueous	VO (82060B), BNA (8270C), PCB (8082), Pesticides (8081A), Herbicides (8151A), Metals (6010B/7470A), Cyanide (9012B)
GWS-OU1-7/10-15	AC66855-004	Aqueous	VO (82060B)
GWS-OU1-7/5-10	AC66855-005	Aqueous	VO (82060B)
DUP 062812/GW	AC66855-006	Aqueous	VO (82060B)
GWS-OU1-6/20-25	AC66855-007	Aqueous	VO (82060B)
GWS-OU1-6/20-25MS	AC66855-008	Aqueous	VO (82060B)
GWS-OU1-6/20-25MSD	AC66855-009	Aqueous	VO (82060B)
GWS-OU1-6/8-13	AC66855-010	Aqueous	VO (82060B)
GWS-OU1-8/8'-13'	AC66879-001	Aqueous	VO (82060B)
GWS-OU1-12/8'-13'	AC66879-002	Aqueous	VO (82060B)
FB-070212	AC66879-003	Aqueous	VO (82060B)
GWS-OU1-14/10-15	AC66879-004	Aqueous	VO (82060B)
TRIP BLANK-8	AC66879-005	Aqueous	VO (82060B)

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Volatile Organic Analysis:

The Matrix Spike and/or Matrix Spike Duplicate for batch 18755 had recoveries outside QC limits. However, since the associated Method Blank and Laboratory Control Sample were within control, no corrective action was necessary.

Sample AC66855-008 MS had one or more surrogate recoveries outside QC limits.

Base Neutral/Acid Extractable Analysis:

The Matrix Spike and/or Matrix Spike Duplicate for batch 14775 had recoveries outside QC limits. However, since the associated Method Blank and Laboratory Control Sample were within control, no corrective action was necessary. The MS/MSD RPD is also outside QC limits.

PCB Analysis:

Data conforms to method requirements.

Pesticide Analysis:

Data conforms to method requirements.

Herbicide Analysis:

Data conforms to method requirements.

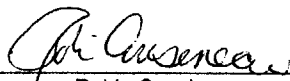
Metals Analysis:

The serial dilution for batch 16543 is outside QC limits for one or more analytes, suggesting matrix interference.

Wet Chemistry Analysis:

Data conforms to method requirements.

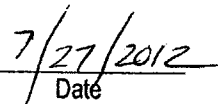
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Robin Cousineau
Quality Assurance Director

Or

Stanley Gilewicz
Laboratory Director



Date

HCV Case Narrative/Conformance Summary

Client: Roux Associates
Project: Pfizer Site B & D

HCV Project: 2062735

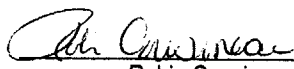
Hampton-Clarke/Veritech (HC-V) received the following samples on June 27, 2012:

<u>Client ID</u>	<u>HCV Sample ID</u>	<u>Matrix</u>	<u>Analysis</u>
GWS-OU1-10/45-50	AC66762-001	Aqueous	VO (8260B)
GWS-OU1-10/65-70	AC66762-002	Aqueous	VO (8260B)

Volatile Organic Analysis:

Data conforms to method requirements.

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Robin Cousineau
Quality Assurance Director

Or

Stanley Gilewicz
Laboratory Director

7/23/2012

Date

HCV Case Narrative/Conformance Summary

Client: Roux Associates
Project: Pfizer Site B& D

HCV Project: 2062736

Hampton-Clarke/Veritech (HC-V) received the following samples on June 27, 29 and July 2, 2012:

<u>Client ID</u>	<u>HCV Sample ID</u>	<u>Matrix</u>	<u>Analysis</u>
GWS-OU1-4/26-27	AC66763-001	Soil	VO (82060B)
TRIP BLANK-7	AC66856-001	Aqueous	VO (82060B)
FB-062912	AC66856-002	Aqueous	VO (82060B), BNA (8270C), PCB (8082), Pesticides (8081A), Herbicides (8151A), Metals (6010B/7470A), Cyanide (9012B)
GWS-OU1-5/8-10	AC66856-003	Soil	VO (82060B)
GWS-OU1-5/25'-30'	AC66856-004	Soil	VO (82060B)
GWS-OU1-7/6-10	AC66856-005	Soil	VO (82060B)
GWS-OU1-7/10-13	AC66856-006	Soil	VO (82060B)
DUP.062812/S	AC66856-007	Soil	VO (82060B)
GWS-OU1-6/9-11	AC66856-008	Soil	VO (82060B), BNA (8270C), PCB (8082), Pesticides (8081A), Herbicides (8151A), Metals (6010B/7470A), Cyanide (9012B)
GWS-OU1-6/13-15	AC66856-009	Soil	VO (82060B), BNA (8270C), PCB (8082), Pesticides (8081A), Herbicides (8151A), Metals (6010B/7470A), Cyanide (9012B)
GWS-OU1-6/20-22	AC66856-010	Soil	VO (82060B)
GWS-OU1-6/20-22MS	AC66856-011	Soil	VO (82060B)
GWS-OU1-6/20-22MSD	AC66856-012	Soil	VO (82060B)
GWS-OU1-8/10'-15'	AC66880-001	Soil	VO (82060B), BNA (8270C), PCB (8082), Pesticides (8081A), Herbicides (8151A), Metals (6010B/7470A), Cyanide (9012B)
GWS-OU1-12/12'-14'	AC66880-002	Soil	VO (82060B), BNA (8270C), PCB (8082), Pesticides (8081A), Herbicides (8151A), Metals (6010B/7470A), Cyanide (9012B)
GWS-OU1-14/13'-14'	AC66880-003	Soil	VO (82060B), BNA (8270C), PCB (8082), Pesticides (8081A), Herbicides (8151A), Metals (6010B/7470A), Cyanide (9012B)
GWS-OU1-13/10'-15'	AC66880-004	Soil	VO (82060B), BNA (8270C), PCB (8082), Pesticides (8081A), Herbicides (8151A), Metals (6010B/7470A), Cyanide (9012B)
GWS-OU1-13/23'-28'	AC66880-005	Soil	VO (82060B), BNA (8270C), PCB (8082), Pesticides (8081A), Herbicides (8151A), Metals (6010B/7470A), Cyanide (9012B)

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Volatile Organic Analysis:

Methylene chloride was recovered in samples AC66880-004, 005, AC66856-004, 008, 009 and 010 suggesting laboratory contamination.

Acetone was recovered in samples AC66856-004 and 009 suggesting laboratory contamination

The Matrix Spike and/or Matrix Spike Duplicate for batches 18702 and 18764 had recoveries outside QC limits. However, since the associated Method Blank and Laboratory Control Sample were within control, no corrective action was necessary.

Base Neutral/Acid Extractable Analysis:

The Matrix Spike for batch 14823 had recoveries outside QC limits. However, since the associated Method Blank and Laboratory Control Sample were within control, no corrective action was necessary.

PCB Analysis:

Data conforms to method requirements.

Pesticide Analysis:

Data conforms to method requirements.

Herbicide Analysis:

Samples AC66856-008, 009 and AC66880-001 were initially extracted within hold time, but QC criteria did not pass in MBS. The samples were re-extracted outside the hold time and passed all the recovery criteria.

Metals Analysis:

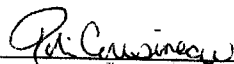
The Matrix Spike and/or Matrix Spike Duplicate for batch 16532 had recoveries outside QC limits. However, since the associated Method Blank and Laboratory Control Sample were within control, no corrective action was necessary. In addition the RPD between the QC sample and the Method Replicate and MS/MSD RPD are outside QC limits. The RPD criteria were met between the LCS/LCS Method Replicate. The serial dilution is also outside QC limits, suggesting matrix interference.

The Matrix Spike and/or Matrix Spike Duplicate for batch 16536 had recoveries outside QC limits. However, since the associated Method Blank and Laboratory Control Sample were within control, no corrective action was necessary. In addition the RPD between the QC sample and the Method Replicate and MS/MSD RPD are outside QC limits. The RPD criteria were met between the LCS/LCS Method Replicate.

Wet Chemistry Analysis:

The Matrix Spike and/or Matrix Spike Duplicate for Cyanide batch 933 recovered outside QC limits. However, since the associated Method Blank and Laboratory Control Sample were within control, no corrective action was necessary.

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Robin Cousineau
Quality Assurance Director

Or

Stanley Gilewicz
Laboratory Director

7/30/2012
Date

HCV Case Narrative/Conformance Summary

Client: Roux Associates
Project: Pfizer Site B& D

HCV Project: 2070335

Hampton-Clarke/Veritech (HC-V) received the following samples on July 3, 2012:

<u>Client ID</u>	<u>HCV Sample ID</u>	<u>Matrix</u>	<u>Analysis</u>
GWS-OU1-11/14-15	AC66917-001	Soil	VO (8260B), BNA (8270C), PCB (8082), Pesticides (8081A), Herbicides (8151A), Metals (6010B/7470A), Cyanide (9012B), TOC (9060)
DUP-070312/S	AC66917-002	Soil	VO (8260B), BNA (8270C), PCB (8082), Pesticides (8081A), Herbicides (8151A), Metals (6010B/7471A), Cyanide (9012B), TOC (9060)
GWS-OU1-11/15-16	AC66917-003	Soil	VO (8260B)
GWS-OU1-11/15-16 MS	AC66917-004	Soil	VO (8260B)
GWS-OU1-11/15-16 MSD	AC66917-005	Soil	VO (8260B)
GWS-OU1-11/20-22	AC66917-006	Soil	VO (8260B)
GWS-OU1-11/25-30	AC66917-007	Soil	VO (8260B)
GWS-OU1-9/14-15	AC66917-008	Soil	VO (8260B), BNA (8270C), PCB (8082), Pesticides (8081A), Herbicides (8151A), Metals (6010B/7471A), Cyanide (9012B)
GWS-OU1-9/16-20	AC66917-009	Soil	VO (8260B)
GWS-OU1-9/23-25	AC66917-010	Soil	VO (8260B)
GWS-OU1-9/25-26	AC66917-011	Soil	VO (8260B)
FB-070312	AC66917-012	Aqueous	VO (8260B), BNA (8270C), PCB (8082), Pesticides (8081A), Herbicides (8151A), Metals (6010B/7471A), Cyanide (9012B)
TRIP BLANK-9	AC66917-013	Aqueous	VO (8260B)

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Volatile Organic Analysis:

Acetone was recovered in sample AC66917- 008 suggesting laboratory contamination.

The Matrix Spike and/or Matrix Spike Duplicate for batches 18702 and 18823 had recoveries outside QC limits. However, since the associated Method Blank and Laboratory Control Sample were within control, no corrective action was necessary.

Base Neutral/Acid Extractable Analysis:

Samples AC66917-001, 007 and 14783MS had a surrogate recovery outside QC limits, but the recovery is greater than 10%, therefore, no corrective action was necessary.

PCB Analysis:

Data conforms to method requirements.

Pesticide Analysis:

The Matrix Spike and/or Matrix Spike Duplicate for batch 14715 had recoveries outside QC limits. However, since the associated Method Blank and Laboratory Control Sample were within control, no corrective action was necessary. The MS/MSD RPD also had recoveries outside QC limits.

Herbicide Analysis:

Data conforms to method requirements.

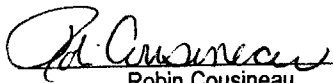
Metals Analysis:

The Matrix Spike and/or Matrix Spike Duplicate for batch 16536 had recoveries outside QC limits. However, since the associated Method Blank and Laboratory Control Sample were within control, no corrective action was necessary. In addition the RPD between the QC sample and the Method Replicate and MS/MSD RPD are outside QC limits. The RPD criteria were met between the LCS/LCS Method Replicate.

Wet Chemistry Analysis:

The RPD between the QC sample and its duplicate outside QC limits for batch 937- Cyanide. The RPD criteria were met between the MS/MSD.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data has been authorized by the Laboratory Manager or his designee, as verified by the following signature.


Robin Cousineau
Quality Assurance Director

Or

Stanley Gilewicz
Laboratory Director

8/1/2012

Date

HCV Case Narrative/Conformance Summary

Client: Roux Associates
Project: Pfizer Site B&D

HCV Project: 2070337

Hampton-Clarke/Veritech (HC-V) received the following samples on July 3 and July 5, 2012:

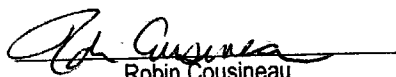
<u>Client ID</u>	<u>HCV Sample ID</u>	<u>Matrix</u>	<u>Analysis</u>
GWS-OU1-13/23-28	AC66919-001	Aqueous	VO (8260B)
GWS-OU1-13/10-15	AC66919-002	Aqueous	VO (8260B)
GWS-OU1-11/20-25	AC66919-003	Aqueous	VO (8260B)
GWS-OU1-11/15-20	AC66919-004	Aqueous	VO (8260B)
GWS-OU1-11/10-15	AC66919-005	Aqueous	VO (8260B)
GWS-OU1-11/10-15 MS	AC66919-006	Aqueous	VO (8260B)
GWS-OU1-11/10-15 MSD	AC66919-007	Aqueous	VO (8260B)
GWS-OU1-9/25-30	AC66919-008	Aqueous	VO (8260B)
DUP-070312/GW	AC66919-009	Aqueous	VO (8260B)
GWS-OU1-9/20-25	AC66919-010	Aqueous	VO (8260B)
GWS-OU1-9/15-20	AC66919-011	Aqueous	VO (8260B)
GWS-OU1-9/10-15	AC66919-012	Aqueous	VO (8260B)
GWS-OU1-10/15-20'	AC66950-001	Aqueous	VO (8260B)
GWS-OU1-10/20-25'	AC66950-002	Aqueous	VO (8260B)
GWS-OU1-10/25-30'	AC66950-003	Aqueous	VO (8260B)
FB-070512	AC66950-004	Aqueous	VO (8260B)
TRIP BLANK	AC66950-005	Aqueous	VO (8260B)

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Volatile Organic Analysis:

The Matrix Spike and/or Matrix Spike Duplicate for batches 18715 and 18749 had recoveries outside QC limits. However, since the associated Method Blank and Laboratory Control Sample were within control, no corrective action was necessary.

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Robin Cousineau
Quality Assurance Director

Or

Stanley Gilewicz
Laboratory Director

8/1/2012
Date

HCV Case Narrative/Conformance Summary

Client: Roux Associates
Project: Pfizer Site B & D

HCV Project: 2072032

Hampton-Clarke/Veritech (HC-V) received the following samples on July 20, 2012 and July 27, 2012:

<u>Client ID</u>	<u>HCV Sample ID</u>	<u>Matrix</u>	<u>Analysis</u>
TRIP BLANK-11	AC67218-001	Aqueous	Volatile (8260)
FB-072012	AC67218-002	Aqueous	Volatile (8260)
TPD-1	AC67218-003	Soil	Volatile (8260), Solids (SM2540G)
FB-072612	AC67335-001	Aqueous	Volatile (8260)
FB-072712	AC67335-002	Aqueous	Volatile (8260)
TRIP BLANK X	AC67335-003	Aqueous	Volatile (8260)
TPD-2	AC67335-004	Soil	Volatile (8260), Solids (SM2540G)
TPD-3 NS	AC67335-005	Soil	Volatile (8260), Solids (SM2540G)
TPD-3 WE	AC67335-006	Soil	Volatile (8260), Solids (SM2540G)
TPD-3	AC67335-007	Soil	Volatile (8260), Solids (SM2540G)

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Volatile Organic Analysis:

Methylene chloride was recovered in sample AC67335-004 suggesting laboratory contamination.

Acetone was recovered in samples AC67335-005 and AC67335-006 suggesting laboratory contamination.

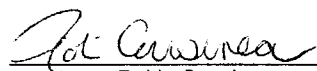
Sample AC67218-003 was analyzed as a methanol extract due to high concentration of non-target analytes.

The Matrix Spike for batch 19240 and 19292 had recoveries outside QC limits. However, since the associated Method Blank and Laboratory Control Sample were within control, no corrective action was necessary.

Wet Chemistry Analysis:

Data conforms to method requirements.

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Robin Cousineau
Quality Assurance Director

Or

Stanley Gilewicz
Laboratory Director

8/20/2012
Date

Data Validation Services

120 Cobble Creek Road P.O. Box 208

North Creek, NY 12853

Phone 518-251-4429

harry@frontiernet.net

November 27, 2012; Revised December 10, 2013

Wai Kwan
Roux Associates
209 Shafter St.
Islandia, NY 11747

RE: Data Usability Summary Review (DUSR) Validation of the Pfizer, Inc Site B and Site D
Analytical Data Packages
TAL-VT SDG No. 200-13202-1

Dear Mr. Kwan:

Review has been completed for the data package generated by TestAmerica Laboratories that pertains to analysis of air samples collected 10/05/12 and 10/08/12 at the Pfizer Sites B and D. Six 6L summa canisters were processed for volatile analytes by EPA method TO-15.

The data packages submitted by the laboratory contain full deliverables for validation, but this usability report is generated from review of the QC summary form information, with full review of sample raw data and limited review of associated QC raw data. The reported QC summary forms and raw data have been reviewed for application of validation qualifiers, with guidance from the USEPA Region II validation SOP HW-31, and in consideration of the specific requirements of the analytical methodology.

The following items were reviewed:

- * Data Completeness
- * Laboratory Case Narrative
- * Custody Documentation
- * Holding Times
- * Internal Standard Recoveries
- * Method and Canister Blanks
- * Laboratory Control Samples (LCSs)
- * Instrumental Tunes
- * Initial and Continuing Calibration Standards
- * Method Compliance
- * Sample Result Verification

The data review includes evaluation of the specific items noted in The NYS DER-10 Appendix B section 2.0 (c).

Those items listed above which show deficiencies are discussed within the text of this narrative. All of the other items were determined to be acceptable for the DUSR level of review.

In summary, sample processing was primarily conducted in compliance with the analytical method. Sample results are usable as reported, with no qualification.

Copies of the client sample identifications and the laboratory case narratives are attached to this text, and should be reviewed in conjunction with this report. Also attached are sample results forms.

Volatile Analyses by EPA TO-15

Holding time requirements were met, and instrument tunes meet fragmentation requirements. Internal standard responses are within the required limits.

Method and canister blanks show no contamination.

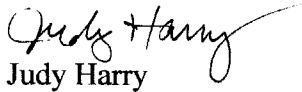
Initial and continuing calibration standard (ICV and CCV) responses are within protocol and validation guidelines, and Laboratory Control Samples (LCSs) show compliant recoveries.

Some of the samples were processed at initial dilution due to target analyte concentrations in the affected samples. This results in proportionally elevated reporting limits for compounds not detected in those samples.

Results for air samples are validated in ppbv, as processed by the laboratory. Conversion factors to ug/m3 were checked on random detected values, and no errors were found.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,


Judy Harry

VALIDATION DATA QUALIFIER DEFINITIONS

- U** The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
- J** The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
- UJ** The analyte was not detected. The associated reported quantitation limit is an estimate and may be inaccurate or imprecise.
- NJ** The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
- R** The data are unusable. The analyte may or may not be present.
- EMPC** The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

**CLIENT and LABORATORY SAMPLE IDs
and CASE NARRATIVE**

SAMPLE SUMMARY

Client: Roux Associates, Inc.

Job Number: 200-13202-1

Sdg Number: 200-13202

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
200-13202-1	SV-AP2	Air	10/05/2012 1422	10/12/2012 0950
200-13202-2	SV-AP4	Air	10/05/2012 1416	10/12/2012 0950
200-13202-3	SV-AP3	Air	10/05/2012 1420	10/12/2012 0950
200-13202-4	AMB-100512	Air	10/05/2012 1418	10/12/2012 0950
200-13202-5	SV-AP1	Air	10/08/2012 1040	10/12/2012 0950
200-13202-6	AMB-100812	Air	10/08/2012 1030	10/12/2012 0950

CASE NARRATIVE

Client: Roux Associates, Inc.

Project: Pfizer Site B Air Sampling (Summa)

Report Number: 200-13202-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 10/12/2012; the samples arrived in good condition.

VOLATILE ORGANIC COMPOUNDS

Samples SV-AP2, SV-AP4, SV-AP3, AMB-100512, SV-AP1 and AMB-100812 were analyzed for Volatile Organic Compounds in accordance with EPA Method TO-15. The samples were analyzed on 10/17/2012 and 10/18/2012.

Samples SV-AP4[554X] and SV-AP3[330X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the VOC analyses.

All quality control parameters were within the acceptance limits.

SAMPLE RESULTS FORMS

Analytical Data

Client: Roux Associates, Inc.

Job Number: 200-13202-1

Sdg Number: 200-13202

Client Sample ID: SV-AP2

Lab Sample ID: 200-13202-1

Date Sampled: 10/05/2012 1422

Client Matrix: Air

Date Received: 10/12/2012 0950

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-46682	Instrument ID:	C.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	clav010.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	10/17/2012 2245			Final Weight/Volume:	200 mL
Prep Date:	10/17/2012 2245			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Dichlorodifluoromethane	0.50	U	0.50	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.20
Chloromethane	1.2		0.50	0.50
Vinyl chloride	0.20	U	0.20	0.20
1,3-Butadiene	0.20	U	0.20	0.20
Bromomethane	0.20	U	0.20	0.20
Chloroethane	0.50	U	0.50	0.50
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.20
Trichlorofluoromethane	0.23		0.20	0.20
Freon TF	0.20	U	0.20	0.20
1,1-Dichloroethene	0.20	U	0.20	0.20
Acetone	5.2		5.0	5.0
Isopropyl alcohol	5.0	U	5.0	5.0
Carbon disulfide	0.50	U	0.50	0.50
3-Chloropropene	0.50	U	0.50	0.50
Methylene Chloride	0.50	U	0.50	0.50
tert-Butyl alcohol	5.0	U	5.0	5.0
Methyl tert-butyl ether	0.20	U	0.20	0.20
trans-1,2-Dichloroethene	0.20	U	0.20	0.20
n-Hexane	0.20	U	0.20	0.20
1,1-Dichloroethane	0.20	U	0.20	0.20
Methyl Ethyl Ketone	0.50	U	0.50	0.50
cis-1,2-Dichloroethene	0.20	U	0.20	0.20
1,2-Dichloroethene, Total	0.20	U	0.20	0.20
Chloroform	1.6		0.20	0.20
Tetrahydrofuran	5.0	U	5.0	5.0
1,1,1-Trichloroethane	0.20	U	0.20	0.20
Cyclohexane	0.20	U	0.20	0.20
Carbon tetrachloride	0.20	U	0.20	0.20
2,2,4-Trimethylpentane	0.20	U	0.20	0.20
Benzene	1.9		0.20	0.20
1,2-Dichloroethane	0.20	U	0.20	0.20
n-Heptane	0.20	U	0.20	0.20
Trichloroethene	0.47		0.20	0.20
1,2-Dichloropropane	0.20	U	0.20	0.20
1,4-Dioxane	5.0	U	5.0	5.0
Bromodichloromethane	0.20	U	0.20	0.20
cis-1,3-Dichloropropene	0.20	U	0.20	0.20
methyl isobutyl ketone	0.52		0.50	0.50
Toluene	1.1		0.20	0.20
trans-1,3-Dichloropropene	0.20	U	0.20	0.20
1,1,2-Trichloroethane	0.20	U	0.20	0.20
Tetrachloroethene	5.6		0.20	0.20
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.50
Dibromochloromethane	0.20	U	0.20	0.20
1,2-Dibromoethane	0.20	U	0.20	0.20

Analytical Data

Client: Roux Associates, Inc.

Job Number: 200-13202-1

Sdg Number: 200-13202

Client Sample ID: SV-AP2

Lab Sample ID: 200-13202-1

Date Sampled: 10/05/2012 1422

Client Matrix: Air

Date Received: 10/12/2012 0950

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-46682	Instrument ID:	C.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	clav010.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	10/17/2012 2245			Final Weight/Volume:	200 mL
Prep Date:	10/17/2012 2245			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Chlorobenzene	0.20	U	0.20	0.20
Ethylbenzene	0.22		0.20	0.20
m,p-Xylene	0.73		0.50	0.50
Xylene, o-	0.30		0.20	0.20
Xylene (total)	1.0		0.20	0.20
Styrene	0.20	U	0.20	0.20
Bromoform	0.20	U	0.20	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.20
4-Ethyltoluene	0.20	U	0.20	0.20
1,3,5-Trimethylbenzene	0.20	U	0.20	0.20
2-Chlorotoluene	0.20	U	0.20	0.20
1,2,4-Trimethylbenzene	0.53		0.20	0.20
1,3-Dichlorobenzene	0.20	U	0.20	0.20
1,4-Dichlorobenzene	0.20	U	0.20	0.20
1,2-Dichlorobenzene	0.20	U	0.20	0.20
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50
Hexachlorobutadiene	0.20	U	0.20	0.20

Analyte	Result (ug/m3)	Qualifier	RL	RL
Dichlorodifluoromethane	2.5	U	2.5	2.5
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	1.4
Chloromethane	2.5		1.0	1.0
Vinyl chloride	0.51	U	0.51	0.51
1,3-Butadiene	0.44	U	0.44	0.44
Bromomethane	0.78	U	0.78	0.78
Chloroethane	1.3	U	1.3	1.3
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.87
Trichlorofluoromethane	1.3		1.1	1.1
Freon TF	1.5	U	1.5	1.5
1,1-Dichloroethene	0.79	U	0.79	0.79
Acetone	12		12	12
Isopropyl alcohol	12	U	12	12
Carbon disulfide	1.6	U	1.6	1.6
3-Chloropropene	1.6	U	1.6	1.6
Methylene Chloride	1.7	U	1.7	1.7
tert-Butyl alcohol	15	U	15	15
Methyl tert-butyl ether	0.72	U	0.72	0.72
trans-1,2-Dichloroethene	0.79	U	0.79	0.79
n-Hexane	0.70	U	0.70	0.70
1,1-Dichloroethane	0.81	U	0.81	0.81
Methyl Ethyl Ketone	1.5	U	1.5	1.5
cis-1,2-Dichloroethene	0.79	U	0.79	0.79
1,2-Dichloroethene, Total	0.79	U	0.79	0.79
Chloroform	7.6		0.98	0.98
Tetrahydrofuran	15	U	15	15
1,1,1-Trichloroethane	1.1	U	1.1	1.1

Analytical Data

Client: Roux Associates, Inc.

Job Number: 200-13202-1

Sdg Number: 200-13202

Client Sample ID: SV-AP2

Lab Sample ID: 200-13202-1

Date Sampled: 10/05/2012 1422

Client Matrix: Air

Date Received: 10/12/2012 0950

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-46682	Instrument ID:	C.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	clav010.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	10/17/2012 2245			Final Weight/Volume:	200 mL
Prep Date:	10/17/2012 2245			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL	RL
Cyclohexane	0.69	U	0.69	0.69
Carbon tetrachloride	1.3	U	1.3	1.3
2,2,4-Trimethylpentane	0.93	U	0.93	0.93
Benzene	6.1		0.64	0.64
1,2-Dichloroethane	0.81	U	0.81	0.81
n-Heptane	0.82	U	0.82	0.82
Trichloroethene	2.5		1.1	1.1
1,2-Dichloropropane	0.92	U	0.92	0.92
1,4-Dioxane	18	U	18	18
Bromodichloromethane	1.3	U	1.3	1.3
cis-1,3-Dichloropropene	0.91	U	0.91	0.91
methyl isobutyl ketone	2.1		2.0	2.0
Toluene	4.3		0.75	0.75
trans-1,3-Dichloropropene	0.91	U	0.91	0.91
1,1,2-Trichloroethane	1.1	U	1.1	1.1
Tetrachloroethene	38		1.4	1.4
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	2.0
Dibromochloromethane	1.7	U	1.7	1.7
1,2-Dibromoethane	1.5	U	1.5	1.5
Chlorobenzene	0.92	U	0.92	0.92
Ethylbenzene	0.95		0.87	0.87
m,p-Xylene	3.2		2.2	2.2
Xylene, o-	1.3		0.87	0.87
Xylene (total)	4.5		0.87	0.87
Styrene	0.85	U	0.85	0.85
Bromoform	2.1	U	2.1	2.1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	1.4
4-Ethyltoluene	0.98	U	0.98	0.98
1,3,5-Trimethylbenzene	0.98	U	0.98	0.98
2-Chlorotoluene	1.0	U	1.0	1.0
1,2,4-Trimethylbenzene	2.6		0.98	0.98
1,3-Dichlorobenzene	1.2	U	1.2	1.2
1,4-Dichlorobenzene	1.2	U	1.2	1.2
1,2-Dichlorobenzene	1.2	U	1.2	1.2
1,2,4-Trichlorobenzene	3.7	U	3.7	3.7
Hexachlorobutadiene	2.1	U	2.1	2.1

Analytical Data

Client: Roux Associates, Inc.

Job Number: 200-13202-1

Sdg Number: 200-13202

Client Sample ID: SV-AP4

Lab Sample ID: 200-13202-2

Date Sampled: 10/05/2012 1416

Client Matrix: Air

Date Received: 10/12/2012 0950

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-46682	Instrument ID:	C.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	clav011.d
Dilution:	554			Initial Weight/Volume:	20 mL
Analysis Date:	10/17/2012 2336			Final Weight/Volume:	200 mL
Prep Date:	10/17/2012 2336			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Dichlorodifluoromethane	280	U	280	280
1,2-Dichlorotetrafluoroethane	110	U	110	110
Chloromethane	280	U	280	280
Vinyl chloride	110	U	110	110
1,3-Butadiene	110	U	110	110
Bromomethane	110	U	110	110
Chloroethane	280	U	280	280
Bromoethene(Vinyl Bromide)	110	U	110	110
Trichlorofluoromethane	110	U	110	110
Freon TF	110	U	110	110
1,1-Dichloroethene	110	U	110	110
Acetone	2800	U	2800	2800
Isopropyl alcohol	2800	U	2800	2800
Carbon disulfide	280	U	280	280
3-Chloropropene	280	U	280	280
Methylene Chloride	280	U	280	280
tert-Butyl alcohol	2800	U	2800	2800
Methyl tert-butyl ether	110	U	110	110
trans-1,2-Dichloroethene	110	U	110	110
n-Hexane	110	U	110	110
1,1-Dichloroethane	110	U	110	110
Methyl Ethyl Ketone	280	U	280	280
cis-1,2-Dichloroethene	350		110	110
1,2-Dichloroethene, Total	370		110	110
Chloroform	110	U	110	110
Tetrahydrofuran	2800	U	2800	2800
1,1,1-Trichloroethane	110	U	110	110
Cyclohexane	110	U	110	110
Carbon tetrachloride	110	U	110	110
2,2,4-Trimethylpentane	110	U	110	110
Benzene	110	U	110	110
1,2-Dichloroethane	110	U	110	110
n-Heptane	110	U	110	110
Trichloroethene	1100		110	110
1,2-Dichloropropane	110	U	110	110
1,4-Dioxane	2800	U	2800	2800
Bromodichloromethane	110	U	110	110
cis-1,3-Dichloropropene	110	U	110	110
methyl isobutyl ketone	280	U	280	280
Toluene	110	U	110	110
trans-1,3-Dichloropropene	110	U	110	110
1,1,2-Trichloroethane	110	U	110	110
Tetrachloroethene	11000		110	110
Methyl Butyl Ketone (2-Hexanone)	280	U	280	280
Dibromochloromethane	110	U	110	110
1,2-Dibromoethane	110	U	110	110

Analytical Data

Client: Roux Associates, Inc.

Job Number: 200-13202-1

Sdg Number: 200-13202

Client Sample ID: SV-AP4

Lab Sample ID: 200-13202-2

Date Sampled: 10/05/2012 1416

Client Matrix: Air

Date Received: 10/12/2012 0950

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-46682	Instrument ID:	C.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	clav011.d
Dilution:	554			Initial Weight/Volume:	20 mL
Analysis Date:	10/17/2012 2336			Final Weight/Volume:	200 mL
Prep Date:	10/17/2012 2336			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Chlorobenzene	110	U	110	110
Ethylbenzene	110	U	110	110
m,p-Xylene	280	U	280	280
Xylene, o-	110	U	110	110
Xylene (total)	110	U	110	110
Styrene	110	U	110	110
Bromoform	110	U	110	110
1,1,2,2-Tetrachloroethane	110	U	110	110
4-Ethyltoluene	110	U	110	110
1,3,5-Trimethylbenzene	110	U	110	110
2-Chlorotoluene	110	U	110	110
1,2,4-Trimethylbenzene	110	U	110	110
1,3-Dichlorobenzene	110	U	110	110
1,4-Dichlorobenzene	110	U	110	110
1,2-Dichlorobenzene	110	U	110	110
1,2,4-Trichlorobenzene	280	U	280	280
Hexachlorobutadiene	110	U	110	110

Analyte	Result (ug/m3)	Qualifier	RL	RL
Dichlorodifluoromethane	1400	U	1400	1400
1,2-Dichlorotetrafluoroethane	770	U	770	770
Chloromethane	570	U	570	570
Vinyl chloride	280	U	280	280
1,3-Butadiene	250	U	250	250
Bromomethane	430	U	430	430
Chloroethane	730	U	730	730
Bromoethene(Vinyl Bromide)	480	U	480	480
Trichlorofluoromethane	620	U	620	620
Freon TF	850	U	850	850
1,1-Dichloroethene	440	U	440	440
Acetone	6600	U	6600	6600
Isopropyl alcohol	6800	U	6800	6800
Carbon disulfide	860	U	860	860
3-Chloropropene	870	U	870	870
Methylene Chloride	960	U	960	960
tert-Butyl alcohol	8400	U	8400	8400
Methyl tert-butyl ether	400	U	400	400
trans-1,2-Dichloroethene	440	U	440	440
n-Hexane	390	U	390	390
1,1-Dichloroethane	450	U	450	450
Methyl Ethyl Ketone	820	U	820	820
cis-1,2-Dichloroethene	1400		440	440
1,2-Dichloroethene, Total	1500		440	440
Chloroform	540	U	540	540
Tetrahydrofuran	8200	U	8200	8200
1,1,1-Trichloroethane	600	U	600	600

Analytical Data

Client: Roux Associates, Inc.

Job Number: 200-13202-1

Sdg Number: 200-13202

Client Sample ID: SV-AP4

Lab Sample ID: 200-13202-2

Date Sampled: 10/05/2012 1416

Client Matrix: Air

Date Received: 10/12/2012 0950

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-46682	Instrument ID:	C.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	clav011.d
Dilution:	554			Initial Weight/Volume:	20 mL
Analysis Date:	10/17/2012 2336			Final Weight/Volume:	200 mL
Prep Date:	10/17/2012 2336			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL	RL
Cyclohexane	380	U	380	380
Carbon tetrachloride	700	U	700	700
2,2,4-Trimethylpentane	520	U	520	520
Benzene	350	U	350	350
1,2-Dichloroethane	450	U	450	450
n-Heptane	450	U	450	450
Trichloroethene	6100		600	600
1,2-Dichloropropane	510	U	510	510
1,4-Dioxane	10000	U	10000	10000
Bromodichloromethane	740	U	740	740
cis-1,3-Dichloropropene	500	U	500	500
methyl isobutyl ketone	1100	U	1100	1100
Toluene	420	U	420	420
trans-1,3-Dichloropropene	500	U	500	500
1,1,2-Trichloroethane	600	U	600	600
Tetrachloroethene	76000		750	750
Methyl Butyl Ketone (2-Hexanone)	1100	U	1100	1100
Dibromochloromethane	940	U	940	940
1,2-Dibromoethane	850	U	850	850
Chlorobenzene	510	U	510	510
Ethylbenzene	480	U	480	480
m,p-Xylene	1200	U	1200	1200
Xylene, o-	480	U	480	480
Xylene (total)	480	U	480	480
Styrene	470	U	470	470
Bromoform	1100	U	1100	1100
1,1,2,2-Tetrachloroethane	760	U	760	760
4-Ethyltoluene	540	U	540	540
1,3,5-Trimethylbenzene	540	U	540	540
2-Chlorotoluene	570	U	570	570
1,2,4-Trimethylbenzene	540	U	540	540
1,3-Dichlorobenzene	670	U	670	670
1,4-Dichlorobenzene	670	U	670	670
1,2-Dichlorobenzene	670	U	670	670
1,2,4-Trichlorobenzene	2100	U	2100	2100
Hexachlorobutadiene	1200	U	1200	1200

Analytical Data

Client: Roux Associates, Inc.

Job Number: 200-13202-1

Sdg Number: 200-13202

Client Sample ID: SV-AP3

Lab Sample ID: 200-13202-3

Date Sampled: 10/05/2012 1420

Client Matrix: Air

Date Received: 10/12/2012 0950

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-46682	Instrument ID:	C.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	clav016.d
Dilution:	330			Initial Weight/Volume:	38 mL
Analysis Date:	10/18/2012 0359			Final Weight/Volume:	200 mL
Prep Date:	10/18/2012 0359			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Dichlorodifluoromethane	170	U	170	170
1,2-Dichlorotetrafluoroethane	66	U	66	66
Chloromethane	170	U	170	170
Vinyl chloride	66	U	66	66
1,3-Butadiene	66	U	66	66
Bromomethane	66	U	66	66
Chloroethane	170	U	170	170
Bromoethene(Vinyl Bromide)	66	U	66	66
Trichlorofluoromethane	66	U	66	66
Freon TF	66	U	66	66
1,1-Dichloroethene	66	U	66	66
Acetone	1700	U	1700	1700
Isopropyl alcohol	1700	U	1700	1700
Carbon disulfide	170	U	170	170
3-Chloropropene	170	U	170	170
Methylene Chloride	170	U	170	170
tert-Butyl alcohol	1700	U	1700	1700
Methyl tert-butyl ether	66	U	66	66
trans-1,2-Dichloroethene	66	U	66	66
n-Hexane	66	U	66	66
1,1-Dichloroethane	66	U	66	66
Methyl Ethyl Ketone	170	U	170	170
cis-1,2-Dichloroethene	370		66	66
1,2-Dichloroethene, Total	410		66	66
Chloroform	66	U	66	66
Tetrahydrofuran	1700	U	1700	1700
1,1,1-Trichloroethane	66	U	66	66
Cyclohexane	66	U	66	66
Carbon tetrachloride	66	U	66	66
2,2,4-Trimethylpentane	66	U	66	66
Benzene	66	U	66	66
1,2-Dichloroethane	66	U	66	66
n-Heptane	66	U	66	66
Trichloroethene	870		66	66
1,2-Dichloropropane	66	U	66	66
1,4-Dioxane	1700	U	1700	1700
Bromodichloromethane	66	U	66	66
cis-1,3-Dichloropropene	66	U	66	66
methyl isobutyl ketone	170	U	170	170
Toluene	66	U	66	66
trans-1,3-Dichloropropene	66	U	66	66
1,1,2-Trichloroethane	66	U	66	66
Tetrachloroethene	5400		66	66
Methyl Butyl Ketone (2-Hexanone)	170	U	170	170
Dibromochloromethane	66	U	66	66
1,2-Dibromoethane	66	U	66	66

Analytical Data

Client: Roux Associates, Inc.

Job Number: 200-13202-1

Sdg Number: 200-13202

Client Sample ID: SV-AP3

Lab Sample ID: 200-13202-3

Date Sampled: 10/05/2012 1420

Client Matrix: Air

Date Received: 10/12/2012 0950

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-46682	Instrument ID:	C.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	clav016.d
Dilution:	330			Initial Weight/Volume:	38 mL
Analysis Date:	10/18/2012 0359			Final Weight/Volume:	200 mL
Prep Date:	10/18/2012 0359			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Chlorobenzene	66	U	66	66
Ethylbenzene	66	U	66	66
m,p-Xylene	170	U	170	170
Xylene, o-	66	U	66	66
Xylene (total)	66	U	66	66
Styrene	66	U	66	66
Bromoform	66	U	66	66
1,1,2,2-Tetrachloroethane	66	U	66	66
4-Ethyltoluene	66	U	66	66
1,3,5-Trimethylbenzene	66	U	66	66
2-Chlorotoluene	66	U	66	66
1,2,4-Trimethylbenzene	66	U	66	66
1,3-Dichlorobenzene	66	U	66	66
1,4-Dichlorobenzene	66	U	66	66
1,2-Dichlorobenzene	66	U	66	66
1,2,4-Trichlorobenzene	170	U	170	170
Hexachlorobutadiene	66	U	66	66

Analyte	Result (ug/m3)	Qualifier	RL	RL
Dichlorodifluoromethane	820	U	820	820
1,2-Dichlorotetrafluoroethane	460	U	460	460
Chloromethane	340	U	340	340
Vinyl chloride	170	U	170	170
1,3-Butadiene	150	U	150	150
Bromomethane	260	U	260	260
Chloroethane	440	U	440	440
Bromoethene(Vinyl Bromide)	290	U	290	290
Trichlorofluoromethane	370	U	370	370
Freon TF	510	U	510	510
1,1-Dichloroethene	260	U	260	260
Acetone	3900	U	3900	3900
Isopropyl alcohol	4100	U	4100	4100
Carbon disulfide	510	U	510	510
3-Chloropropene	520	U	520	520
Methylene Chloride	570	U	570	570
tert-Butyl alcohol	5000	U	5000	5000
Methyl tert-butyl ether	240	U	240	240
trans-1,2-Dichloroethene	260	U	260	260
n-Hexane	230	U	230	230
1,1-Dichloroethane	270	U	270	270
Methyl Ethyl Ketone	490	U	490	490
cis-1,2-Dichloroethene	1500		260	260
1,2-Dichloroethene, Total	1600		260	260
Chloroform	320	U	320	320
Tetrahydrofuran	4900	U	4900	4900
1,1,1-Trichloroethane	360	U	360	360

Analytical Data

Client: Roux Associates, Inc.

Job Number: 200-13202-1

Sdg Number: 200-13202

Client Sample ID: SV-AP3

Lab Sample ID: 200-13202-3

Date Sampled: 10/05/2012 1420

Client Matrix: Air

Date Received: 10/12/2012 0950

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-46682	Instrument ID:	C.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	clav016.d
Dilution:	330			Initial Weight/Volume:	38 mL
Analysis Date:	10/18/2012 0359			Final Weight/Volume:	200 mL
Prep Date:	10/18/2012 0359			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL	RL
Cyclohexane	230	U	230	230
Carbon tetrachloride	420	U	420	420
2,2,4-Trimethylpentane	310	U	310	310
Benzene	210	U	210	210
1,2-Dichloroethane	270	U	270	270
n-Heptane	270	U	270	270
Trichloroethene	4700		350	350
1,2-Dichloropropane	310	U	310	310
1,4-Dioxane	5900	U	5900	5900
Bromodichloromethane	440	U	440	440
cis-1,3-Dichloropropene	300	U	300	300
methyl isobutyl ketone	680	U	680	680
Toluene	250	U	250	250
trans-1,3-Dichloropropene	300	U	300	300
1,1,2-Trichloroethane	360	U	360	360
Tetrachloroethene	37000		450	450
Methyl Butyl Ketone (2-Hexanone)	680	U	680	680
Dibromochloromethane	560	U	560	560
1,2-Dibromoethane	510	U	510	510
Chlorobenzene	300	U	300	300
Ethylbenzene	290	U	290	290
m,p-Xylene	720	U	720	720
Xylene, o-	290	U	290	290
Xylene (total)	290	U	290	290
Styrene	280	U	280	280
Bromoform	680	U	680	680
1,1,2,2-Tetrachloroethane	450	U	450	450
4-Ethyltoluene	320	U	320	320
1,3,5-Trimethylbenzene	320	U	320	320
2-Chlorotoluene	340	U	340	340
1,2,4-Trimethylbenzene	320	U	320	320
1,3-Dichlorobenzene	400	U	400	400
1,4-Dichlorobenzene	400	U	400	400
1,2-Dichlorobenzene	400	U	400	400
1,2,4-Trichlorobenzene	1200	U	1200	1200
Hexachlorobutadiene	700	U	700	700

Analytical Data

Client: Roux Associates, Inc.

Job Number: 200-13202-1

Sdg Number: 200-13202

Client Sample ID: AMB-100512

Lab Sample ID: 200-13202-4

Date Sampled: 10/05/2012 1418

Client Matrix: Air

Date Received: 10/12/2012 0950

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-46682	Instrument ID:	C.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	clav017.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	10/18/2012 0449			Final Weight/Volume:	200 mL
Prep Date:	10/18/2012 0449			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Dichlorodifluoromethane	0.64		0.50	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.20
Chloromethane	0.59		0.50	0.50
Vinyl chloride	0.20	U	0.20	0.20
1,3-Butadiene	0.20	U	0.20	0.20
Bromomethane	0.20	U	0.20	0.20
Chloroethane	0.50	U	0.50	0.50
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.20
Trichlorofluoromethane	0.34		0.20	0.20
Freon TF	0.20	U	0.20	0.20
1,1-Dichloroethene	0.20	U	0.20	0.20
Acetone	11		5.0	5.0
Isopropyl alcohol	5.0	U	5.0	5.0
Carbon disulfide	0.50	U	0.50	0.50
3-Chloropropene	0.50	U	0.50	0.50
Methylene Chloride	0.50	U	0.50	0.50
tert-Butyl alcohol	5.0	U	5.0	5.0
Methyl tert-butyl ether	0.20	U	0.20	0.20
trans-1,2-Dichloroethene	0.20	U	0.20	0.20
n-Hexane	0.27		0.20	0.20
1,1-Dichloroethane	0.20	U	0.20	0.20
Methyl Ethyl Ketone	0.98		0.50	0.50
cis-1,2-Dichloroethene	0.20	U	0.20	0.20
1,2-Dichloroethene, Total	0.20	U	0.20	0.20
Chloroform	0.20	U	0.20	0.20
Tetrahydrofuran	5.0	U	5.0	5.0
1,1,1-Trichloroethane	0.20	U	0.20	0.20
Cyclohexane	0.20	U	0.20	0.20
Carbon tetrachloride	0.20	U	0.20	0.20
2,2,4-Trimethylpentane	0.23		0.20	0.20
Benzene	0.48		0.20	0.20
1,2-Dichloroethane	0.20	U	0.20	0.20
n-Heptane	0.21		0.20	0.20
Trichloroethene	0.20	U	0.20	0.20
1,2-Dichloropropane	0.20	U	0.20	0.20
1,4-Dioxane	5.0	U	5.0	5.0
Bromodichloromethane	0.20	U	0.20	0.20
cis-1,3-Dichloropropene	0.20	U	0.20	0.20
methyl isobutyl ketone	0.50	U	0.50	0.50
Toluene	1.1		0.20	0.20
trans-1,3-Dichloropropene	0.20	U	0.20	0.20
1,1,2-Trichloroethane	0.20	U	0.20	0.20
Tetrachloroethene	1.1		0.20	0.20
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.50
Dibromochloromethane	0.20	U	0.20	0.20
1,2-Dibromoethane	0.20	U	0.20	0.20

Analytical Data

Client: Roux Associates, Inc.

Job Number: 200-13202-1

Sdg Number: 200-13202

Client Sample ID: AMB-100512

Lab Sample ID: 200-13202-4

Date Sampled: 10/05/2012 1418

Client Matrix: Air

Date Received: 10/12/2012 0950

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-46682	Instrument ID:	C.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	clav017.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	10/18/2012 0449			Final Weight/Volume:	200 mL
Prep Date:	10/18/2012 0449			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Chlorobenzene	0.20	U	0.20	0.20
Ethylbenzene	0.20	U	0.20	0.20
m,p-Xylene	0.57		0.50	0.50
Xylene, o-	0.22		0.20	0.20
Xylene (total)	0.79		0.20	0.20
Styrene	0.20	U	0.20	0.20
Bromoform	0.20	U	0.20	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.20
4-Ethyltoluene	0.20	U	0.20	0.20
1,3,5-Trimethylbenzene	0.20	U	0.20	0.20
2-Chlorotoluene	0.20	U	0.20	0.20
1,2,4-Trimethylbenzene	0.26		0.20	0.20
1,3-Dichlorobenzene	0.20	U	0.20	0.20
1,4-Dichlorobenzene	0.20	U	0.20	0.20
1,2-Dichlorobenzene	0.20	U	0.20	0.20
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50
Hexachlorobutadiene	0.20	U	0.20	0.20

Analyte	Result (ug/m3)	Qualifier	RL	RL
Dichlorodifluoromethane	3.1		2.5	2.5
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	1.4
Chloromethane	1.2		1.0	1.0
Vinyl chloride	0.51	U	0.51	0.51
1,3-Butadiene	0.44	U	0.44	0.44
Bromomethane	0.78	U	0.78	0.78
Chloroethane	1.3	U	1.3	1.3
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.87
Trichlorofluoromethane	1.9		1.1	1.1
Freon TF	1.5	U	1.5	1.5
1,1-Dichloroethene	0.79	U	0.79	0.79
Acetone	26		12	12
Isopropyl alcohol	12	U	12	12
Carbon disulfide	1.6	U	1.6	1.6
3-Chloropropene	1.6	U	1.6	1.6
Methylene Chloride	1.7	U	1.7	1.7
tert-Butyl alcohol	15	U	15	15
Methyl tert-butyl ether	0.72	U	0.72	0.72
trans-1,2-Dichloroethene	0.79	U	0.79	0.79
n-Hexane	0.95		0.70	0.70
1,1-Dichloroethane	0.81	U	0.81	0.81
Methyl Ethyl Ketone	2.9		1.5	1.5
cis-1,2-Dichloroethene	0.79	U	0.79	0.79
1,2-Dichloroethene, Total	0.79	U	0.79	0.79
Chloroform	0.98	U	0.98	0.98
Tetrahydrofuran	15	U	15	15
1,1,1-Trichloroethane	1.1	U	1.1	1.1

Analytical Data

Client: Roux Associates, Inc.

Job Number: 200-13202-1

Sdg Number: 200-13202

Client Sample ID: AMB-100512

Lab Sample ID: 200-13202-4

Date Sampled: 10/05/2012 1418

Client Matrix: Air

Date Received: 10/12/2012 0950

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-46682	Instrument ID:	C.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	clav017.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	10/18/2012 0449			Final Weight/Volume:	200 mL
Prep Date:	10/18/2012 0449			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL	RL
Cyclohexane	0.69	U	0.69	0.69
Carbon tetrachloride	1.3	U	1.3	1.3
2,2,4-Trimethylpentane	1.1		0.93	0.93
Benzene	1.5		0.64	0.64
1,2-Dichloroethane	0.81	U	0.81	0.81
n-Heptane	0.86		0.82	0.82
Trichloroethene	1.1	U	1.1	1.1
1,2-Dichloropropane	0.92	U	0.92	0.92
1,4-Dioxane	18	U	18	18
Bromodichloromethane	1.3	U	1.3	1.3
cis-1,3-Dichloropropene	0.91	U	0.91	0.91
methyl isobutyl ketone	2.0	U	2.0	2.0
Toluene	4.3		0.75	0.75
trans-1,3-Dichloropropene	0.91	U	0.91	0.91
1,1,2-Trichloroethane	1.1	U	1.1	1.1
Tetrachloroethene	7.2		1.4	1.4
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	2.0
Dibromochloromethane	1.7	U	1.7	1.7
1,2-Dibromoethane	1.5	U	1.5	1.5
Chlorobenzene	0.92	U	0.92	0.92
Ethylbenzene	0.87	U	0.87	0.87
m,p-Xylene	2.5		2.2	2.2
Xylene, o-	0.95		0.87	0.87
Xylene (total)	3.4		0.87	0.87
Styrene	0.85	U	0.85	0.85
Bromoform	2.1	U	2.1	2.1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	1.4
4-Ethyltoluene	0.98	U	0.98	0.98
1,3,5-Trimethylbenzene	0.98	U	0.98	0.98
2-Chlorotoluene	1.0	U	1.0	1.0
1,2,4-Trimethylbenzene	1.3		0.98	0.98
1,3-Dichlorobenzene	1.2	U	1.2	1.2
1,4-Dichlorobenzene	1.2	U	1.2	1.2
1,2-Dichlorobenzene	1.2	U	1.2	1.2
1,2,4-Trichlorobenzene	3.7	U	3.7	3.7
Hexachlorobutadiene	2.1	U	2.1	2.1

Analytical Data

Client: Roux Associates, Inc.

Job Number: 200-13202-1

Sdg Number: 200-13202

Client Sample ID: SV-AP1

Lab Sample ID: 200-13202-5

Date Sampled: 10/08/2012 1040

Client Matrix: Air

Date Received: 10/12/2012 0950

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-46682	Instrument ID:	C.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	clav018.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	10/18/2012 0540			Final Weight/Volume:	200 mL
Prep Date:	10/18/2012 0540			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Dichlorodifluoromethane	0.50	U	0.50	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.20
Chloromethane	0.50	U	0.50	0.50
Vinyl chloride	0.20	U	0.20	0.20
1,3-Butadiene	0.20	U	0.20	0.20
Bromomethane	0.20	U	0.20	0.20
Chloroethane	0.50	U	0.50	0.50
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.20
Trichlorofluoromethane	0.31		0.20	0.20
Freon TF	0.20	U	0.20	0.20
1,1-Dichloroethene	0.20	U	0.20	0.20
Acetone	5.0	U	5.0	5.0
Isopropyl alcohol	5.0	U	5.0	5.0
Carbon disulfide	0.50	U	0.50	0.50
3-Chloropropene	0.50	U	0.50	0.50
Methylene Chloride	0.50	U	0.50	0.50
tert-Butyl alcohol	5.0	U	5.0	5.0
Methyl tert-butyl ether	0.20	U	0.20	0.20
trans-1,2-Dichloroethene	0.20	U	0.20	0.20
n-Hexane	0.20	U	0.20	0.20
1,1-Dichloroethane	0.20	U	0.20	0.20
Methyl Ethyl Ketone	0.50	U	0.50	0.50
cis-1,2-Dichloroethene	0.20	U	0.20	0.20
1,2-Dichloroethene, Total	0.20	U	0.20	0.20
Chloroform	0.39		0.20	0.20
Tetrahydrofuran	5.0	U	5.0	5.0
1,1,1-Trichloroethane	12		0.20	0.20
Cyclohexane	0.20	U	0.20	0.20
Carbon tetrachloride	0.20	U	0.20	0.20
2,2,4-Trimethylpentane	0.20	U	0.20	0.20
Benzene	0.20	U	0.20	0.20
1,2-Dichloroethane	0.20	U	0.20	0.20
n-Heptane	0.20	U	0.20	0.20
Trichloroethene	0.20	U	0.20	0.20
1,2-Dichloropropane	0.20	U	0.20	0.20
1,4-Dioxane	5.0	U	5.0	5.0
Bromodichloromethane	0.20	U	0.20	0.20
cis-1,3-Dichloropropene	0.20	U	0.20	0.20
methyl isobutyl ketone	0.50	U	0.50	0.50
Toluene	0.35		0.20	0.20
trans-1,3-Dichloropropene	0.20	U	0.20	0.20
1,1,2-Trichloroethane	0.20	U	0.20	0.20
Tetrachloroethene	16		0.20	0.20
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.50
Dibromochloromethane	0.20	U	0.20	0.20
1,2-Dibromoethane	0.20	U	0.20	0.20

Analytical Data

Client: Roux Associates, Inc.

Job Number: 200-13202-1

Sdg Number: 200-13202

Client Sample ID: SV-AP1

Lab Sample ID: 200-13202-5

Date Sampled: 10/08/2012 1040

Client Matrix: Air

Date Received: 10/12/2012 0950

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-46682	Instrument ID:	C.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	clav018.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	10/18/2012 0540			Final Weight/Volume:	200 mL
Prep Date:	10/18/2012 0540			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Chlorobenzene	0.20	U	0.20	0.20
Ethylbenzene	0.20	U	0.20	0.20
m,p-Xylene	0.50	U	0.50	0.50
Xylene, o-	0.20	U	0.20	0.20
Xylene (total)	0.26		0.20	0.20
Styrene	0.20	U	0.20	0.20
Bromoform	0.20	U	0.20	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.20
4-Ethyltoluene	0.20	U	0.20	0.20
1,3,5-Trimethylbenzene	0.20	U	0.20	0.20
2-Chlorotoluene	0.20	U	0.20	0.20
1,2,4-Trimethylbenzene	0.20	U	0.20	0.20
1,3-Dichlorobenzene	0.20	U	0.20	0.20
1,4-Dichlorobenzene	0.20	U	0.20	0.20
1,2-Dichlorobenzene	0.20	U	0.20	0.20
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50
Hexachlorobutadiene	0.20	U	0.20	0.20

Analyte	Result (ug/m3)	Qualifier	RL	RL
Dichlorodifluoromethane	2.5	U	2.5	2.5
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	1.4
Chloromethane	1.0	U	1.0	1.0
Vinyl chloride	0.51	U	0.51	0.51
1,3-Butadiene	0.44	U	0.44	0.44
Bromomethane	0.78	U	0.78	0.78
Chloroethane	1.3	U	1.3	1.3
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.87
Trichlorofluoromethane	1.8		1.1	1.1
Freon TF	1.5	U	1.5	1.5
1,1-Dichloroethene	0.79	U	0.79	0.79
Acetone	12	U	12	12
Isopropyl alcohol	12	U	12	12
Carbon disulfide	1.6	U	1.6	1.6
3-Chloropropene	1.6	U	1.6	1.6
Methylene Chloride	1.7	U	1.7	1.7
tert-Butyl alcohol	15	U	15	15
Methyl tert-butyl ether	0.72	U	0.72	0.72
trans-1,2-Dichloroethene	0.79	U	0.79	0.79
n-Hexane	0.70	U	0.70	0.70
1,1-Dichloroethane	0.81	U	0.81	0.81
Methyl Ethyl Ketone	1.5	U	1.5	1.5
cis-1,2-Dichloroethene	0.79	U	0.79	0.79
1,2-Dichloroethene, Total	0.79	U	0.79	0.79
Chloroform	1.9		0.98	0.98
Tetrahydrofuran	15	U	15	15
1,1,1-Trichloroethane	65		1.1	1.1

Analytical Data

Client: Roux Associates, Inc.

Job Number: 200-13202-1

Sdg Number: 200-13202

Client Sample ID: SV-AP1

Lab Sample ID: 200-13202-5

Date Sampled: 10/08/2012 1040

Client Matrix: Air

Date Received: 10/12/2012 0950

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-46682	Instrument ID:	C.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	clav018.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	10/18/2012 0540			Final Weight/Volume:	200 mL
Prep Date:	10/18/2012 0540			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL	RL
Cyclohexane	0.69	U	0.69	0.69
Carbon tetrachloride	1.3	U	1.3	1.3
2,2,4-Trimethylpentane	0.93	U	0.93	0.93
Benzene	0.64	U	0.64	0.64
1,2-Dichloroethane	0.81	U	0.81	0.81
n-Heptane	0.82	U	0.82	0.82
Trichloroethene	1.1	U	1.1	1.1
1,2-Dichloropropane	0.92	U	0.92	0.92
1,4-Dioxane	18	U	18	18
Bromodichloromethane	1.3	U	1.3	1.3
cis-1,3-Dichloropropene	0.91	U	0.91	0.91
methyl isobutyl ketone	2.0	U	2.0	2.0
Toluene	1.3		0.75	0.75
trans-1,3-Dichloropropene	0.91	U	0.91	0.91
1,1,2-Trichloroethane	1.1	U	1.1	1.1
Tetrachloroethene	110		1.4	1.4
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	2.0
Dibromochloromethane	1.7	U	1.7	1.7
1,2-Dibromoethane	1.5	U	1.5	1.5
Chlorobenzene	0.92	U	0.92	0.92
Ethylbenzene	0.87	U	0.87	0.87
m,p-Xylene	2.2	U	2.2	2.2
Xylene, o-	0.87	U	0.87	0.87
Xylene (total)	1.1		0.87	0.87
Styrene	0.85	U	0.85	0.85
Bromoform	2.1	U	2.1	2.1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	1.4
4-Ethyltoluene	0.98	U	0.98	0.98
1,3,5-Trimethylbenzene	0.98	U	0.98	0.98
2-Chlorotoluene	1.0	U	1.0	1.0
1,2,4-Trimethylbenzene	0.98	U	0.98	0.98
1,3-Dichlorobenzene	1.2	U	1.2	1.2
1,4-Dichlorobenzene	1.2	U	1.2	1.2
1,2-Dichlorobenzene	1.2	U	1.2	1.2
1,2,4-Trichlorobenzene	3.7	U	3.7	3.7
Hexachlorobutadiene	2.1	U	2.1	2.1

Analytical Data

Client: Roux Associates, Inc.

Job Number: 200-13202-1

Sdg Number: 200-13202

Client Sample ID: AMB-100812

Lab Sample ID: 200-13202-6

Date Sampled: 10/08/2012 1030

Client Matrix: Air

Date Received: 10/12/2012 0950

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-46682	Instrument ID:	C.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	clav022.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	10/18/2012 0911			Final Weight/Volume:	200 mL
Prep Date:	10/18/2012 0911			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Dichlorodifluoromethane	0.59		0.50	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.20
Chloromethane	0.51		0.50	0.50
Vinyl chloride	0.20	U	0.20	0.20
1,3-Butadiene	0.20	U	0.20	0.20
Bromomethane	0.20	U	0.20	0.20
Chloroethane	0.50	U	0.50	0.50
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.20
Trichlorofluoromethane	0.29		0.20	0.20
Freon TF	0.20	U	0.20	0.20
1,1-Dichloroethene	0.20	U	0.20	0.20
Acetone	5.0	U	5.0	5.0
Isopropyl alcohol	5.0	U	5.0	5.0
Carbon disulfide	0.50	U	0.50	0.50
3-Chloropropene	0.50	U	0.50	0.50
Methylene Chloride	0.57		0.50	0.50
tert-Butyl alcohol	5.0	U	5.0	5.0
Methyl tert-butyl ether	0.20	U	0.20	0.20
trans-1,2-Dichloroethene	0.20	U	0.20	0.20
n-Hexane	0.23		0.20	0.20
1,1-Dichloroethane	0.20	U	0.20	0.20
Methyl Ethyl Ketone	0.50	U	0.50	0.50
cis-1,2-Dichloroethene	0.20	U	0.20	0.20
1,2-Dichloroethene, Total	0.20	U	0.20	0.20
Chloroform	0.20	U	0.20	0.20
Tetrahydrofuran	5.0	U	5.0	5.0
1,1,1-Trichloroethane	0.20	U	0.20	0.20
Cyclohexane	0.20	U	0.20	0.20
Carbon tetrachloride	0.20	U	0.20	0.20
2,2,4-Trimethylpentane	0.20	U	0.20	0.20
Benzene	0.26		0.20	0.20
1,2-Dichloroethane	0.20	U	0.20	0.20
n-Heptane	0.20	U	0.20	0.20
Trichloroethene	0.20	U	0.20	0.20
1,2-Dichloropropane	0.20	U	0.20	0.20
1,4-Dioxane	5.0	U	5.0	5.0
Bromodichloromethane	0.20	U	0.20	0.20
cis-1,3-Dichloropropene	0.20	U	0.20	0.20
methyl isobutyl ketone	0.50	U	0.50	0.50
Toluene	1.2		0.20	0.20
trans-1,3-Dichloropropene	0.20	U	0.20	0.20
1,1,2-Trichloroethane	0.20	U	0.20	0.20
Tetrachloroethene	0.20	U	0.20	0.20
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.50
Dibromochloromethane	0.20	U	0.20	0.20
1,2-Dibromoethane	0.20	U	0.20	0.20

Analytical Data

Client: Roux Associates, Inc.

Job Number: 200-13202-1

Sdg Number: 200-13202

Client Sample ID: AMB-100812

Lab Sample ID: 200-13202-6

Date Sampled: 10/08/2012 1030

Client Matrix: Air

Date Received: 10/12/2012 0950

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-46682	Instrument ID:	C.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	clav022.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	10/18/2012 0911			Final Weight/Volume:	200 mL
Prep Date:	10/18/2012 0911			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Chlorobenzene	0.20	U	0.20	0.20
Ethylbenzene	0.20	U	0.20	0.20
m,p-Xylene	0.50	U	0.50	0.50
Xylene, o-	0.20	U	0.20	0.20
Xylene (total)	0.50		0.20	0.20
Styrene	0.20	U	0.20	0.20
Bromoform	0.20	U	0.20	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.20
4-Ethyltoluene	0.20	U	0.20	0.20
1,3,5-Trimethylbenzene	0.20	U	0.20	0.20
2-Chlorotoluene	0.20	U	0.20	0.20
1,2,4-Trimethylbenzene	0.20	U	0.20	0.20
1,3-Dichlorobenzene	0.20	U	0.20	0.20
1,4-Dichlorobenzene	0.20	U	0.20	0.20
1,2-Dichlorobenzene	0.20	U	0.20	0.20
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50
Hexachlorobutadiene	0.20	U	0.20	0.20

Analyte	Result (ug/m3)	Qualifier	RL	RL
Dichlorodifluoromethane	2.9		2.5	2.5
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	1.4
Chloromethane	1.1		1.0	1.0
Vinyl chloride	0.51	U	0.51	0.51
1,3-Butadiene	0.44	U	0.44	0.44
Bromomethane	0.78	U	0.78	0.78
Chloroethane	1.3	U	1.3	1.3
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.87
Trichlorofluoromethane	1.6		1.1	1.1
Freon TF	1.5	U	1.5	1.5
1,1-Dichloroethene	0.79	U	0.79	0.79
Acetone	12	U	12	12
Isopropyl alcohol	12	U	12	12
Carbon disulfide	1.6	U	1.6	1.6
3-Chloropropene	1.6	U	1.6	1.6
Methylene Chloride	2.0		1.7	1.7
tert-Butyl alcohol	15	U	15	15
Methyl tert-butyl ether	0.72	U	0.72	0.72
trans-1,2-Dichloroethene	0.79	U	0.79	0.79
n-Hexane	0.82		0.70	0.70
1,1-Dichloroethane	0.81	U	0.81	0.81
Methyl Ethyl Ketone	1.5	U	1.5	1.5
cis-1,2-Dichloroethene	0.79	U	0.79	0.79
1,2-Dichloroethene, Total	0.79	U	0.79	0.79
Chloroform	0.98	U	0.98	0.98
Tetrahydrofuran	15	U	15	15
1,1,1-Trichloroethane	1.1	U	1.1	1.1

Analytical Data

Client: Roux Associates, Inc.

Job Number: 200-13202-1

Sdg Number: 200-13202

Client Sample ID: AMB-100812

Lab Sample ID: 200-13202-6

Date Sampled: 10/08/2012 1030

Client Matrix: Air

Date Received: 10/12/2012 0950

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-46682	Instrument ID:	C.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	clav022.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	10/18/2012 0911			Final Weight/Volume:	200 mL
Prep Date:	10/18/2012 0911			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL	RL
Cyclohexane	0.69	U	0.69	0.69
Carbon tetrachloride	1.3	U	1.3	1.3
2,2,4-Trimethylpentane	0.93	U	0.93	0.93
Benzene	0.83		0.64	0.64
1,2-Dichloroethane	0.81	U	0.81	0.81
n-Heptane	0.82	U	0.82	0.82
Trichloroethene	1.1	U	1.1	1.1
1,2-Dichloropropane	0.92	U	0.92	0.92
1,4-Dioxane	18	U	18	18
Bromodichloromethane	1.3	U	1.3	1.3
cis-1,3-Dichloropropene	0.91	U	0.91	0.91
methyl isobutyl ketone	2.0	U	2.0	2.0
Toluene	4.5		0.75	0.75
trans-1,3-Dichloropropene	0.91	U	0.91	0.91
1,1,2-Trichloroethane	1.1	U	1.1	1.1
Tetrachloroethene	1.4	U	1.4	1.4
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	2.0
Dibromochloromethane	1.7	U	1.7	1.7
1,2-Dibromoethane	1.5	U	1.5	1.5
Chlorobenzene	0.92	U	0.92	0.92
Ethylbenzene	0.87	U	0.87	0.87
m,p-Xylene	2.2	U	2.2	2.2
Xylene, o-	0.87	U	0.87	0.87
Xylene (total)	2.2		0.87	0.87
Styrene	0.85	U	0.85	0.85
Bromoform	2.1	U	2.1	2.1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	1.4
4-Ethyltoluene	0.98	U	0.98	0.98
1,3,5-Trimethylbenzene	0.98	U	0.98	0.98
2-Chlorotoluene	1.0	U	1.0	1.0
1,2,4-Trimethylbenzene	0.98	U	0.98	0.98
1,3-Dichlorobenzene	1.2	U	1.2	1.2
1,4-Dichlorobenzene	1.2	U	1.2	1.2
1,2-Dichlorobenzene	1.2	U	1.2	1.2
1,2,4-Trichlorobenzene	3.7	U	3.7	3.7
Hexachlorobutadiene	2.1	U	2.1	2.1

Data Validation Services

120 Cobble Creek Road P.O. Box 208

North Creek, NY 12853

Phone 518-251-4429

harry@frontiernet.net

May 21, 2013; Revised December 10, 2013

Wai Kwan
Roux Associates
209 Shafter St.
Islandia, NY 11747

RE: **Data Usability Summary Report (DUSR) for the Pfizer Inc Site B and Site D Remedial Investigation**
Air and Groundwater Samples
Accutest SDG No. JB31674 and TAL-VT SDG 200-15393-1

Dear Mr. Kwan:

Review has been completed for the data packages generated by Accutest Laboratories and TestAmerica Laboratories that pertains to analysis of air samples collected 04/02/13 at the Pfizer RI Site B and Site D. Six aqueous samples and a field duplicate were analyzed for TCL volatiles by USEPA method 8260B. Three 6 L canister air samples were analyzed for volatile analytes by USEPA GC/MS method TO-15.

The data packages submitted by the laboratory contain full deliverables for validation, but this usability report is generated from review of the QC summary form information, with full review of sample raw data and limited review of associated QC raw data. The reported QC summary forms and raw data have been reviewed for application of validation qualifiers, with guidance from the USEPA Region II validation SOPs HW-24 and HW-31, the 1999 USEPA National Functional Guidelines for CLP Organic Data Review, and in consideration of the specific requirements of the analytical methodology. The following items were reviewed:

- * Data Completeness
- * Case Narrative
- * Custody Documentation
- * Holding Times
- * Surrogate Recoveries
- * Internal Standard Recoveries
- * Method and Clean Canister Blanks
- * Laboratory Duplicate Correlations
- * Laboratory Control Samples (LCSs)
- * Instrumental Tunes
- * Initial and Continuing Calibration Standards
- * Method Compliance
- * Sample Result Verification

The data review includes evaluation of the specific items noted in The NYS DER-10 Appendix B section 2.0 (c). The items listed above that show deficiencies are discussed within the text of this narrative. The laboratory QC forms illustrating the excursions can be found within the laboratory data packages.

In summary, sample processing was conducted in compliance with the analysis protocol. All sample reported results are usable as reported.

Copies of the laboratory sample identification summary and case narrative are attached to this text. Also attached are client results tables, with the recommended qualifiers and edits applied in red.

Volatile Analyses by EPA 8260B

Matrix spikes (MS and MSD) were performed on MW-D2I and MW-D3I, and show the following outliers, results for which are qualified as estimated in the indicated parent sample:

- cis-1,2-dichloroethene and tetrachloroethene (36% to 50%) in MW-D2I
- cis-1,2-dichloroethene, tetrachloroethene, and styrene (40% to 58%) in MW-D3I

The field duplicate evaluation was performed on MW-D3. Correlations are within recommended limits.

Holding times were met. Surrogate and internal standard responses are within required limits. Blanks show no contamination. Calibration standards meet protocol and validation requirements.

Some of the samples were processed only at dilution due to elevated concentrations of target analytes. This resulted in elevated reporting limits for undetected analytes in that sample.

Volatile Analyses by TO-15

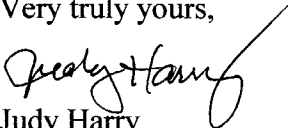
Holding times were met and internal standard recoveries are acceptable. Instrument tunes meet fragmentation requirements, and method blanks show no contamination.

Initial and continuing calibration verification responses are within validation guidelines, with the exception of those for 1,2,4-trichlorobenzene (33%RSD). Results for that compound in the samples have been qualified as estimated in value.

Clean canister certification summaries were provided, and show no contamination.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,



Judy Harry

VALIDATION DATA QUALIFIER DEFINITIONS

- U** The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
- J** The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
- UJ** The analyte was not detected. The associated reported quantitation limit is an estimate and may be inaccurate or imprecise.
- NJ** The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
- R** The data are unusable. The analyte may or may not be present.
- EMPC** The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

**CLIENT and LABORATORY SAMPLE IDs
and
LABORATORY CASE NARRATIVES**

SAMPLE SUMMARY

Client: Roux Associates, Inc.

Job Number: 200-15393-1

Sdg Number: 200-15393

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
200-15393-1	SV-AP5	Air	03/05/2013 1647	03/07/2013 1030
200-15393-2	SV-AP6	Air	03/05/2013 1703	03/07/2013 1030
200-15393-3	AMBIENT BACKGROUND-1	Air	03/05/2013 1709	03/07/2013 1030

CASE NARRATIVE

Client: Roux Associates, Inc.

Project: Pfizer Site B Air Sampling (Summa)

Report Number: 200-15393-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 03/07/2013; the samples arrived in good condition.

The COC lists 3991 as the flow controller identifier for sample SV-AP6 and 3781 for sample AMBIENT BACKGROUND-1, and the sample labels list the opposite. Sample SV-AP6 was logged in with flow controller ID 3781, and sample AMBIENT BACKGROUND-1 was logged in with flow controller ID 3991.

VOLATILE ORGANIC COMPOUNDS

Samples SV-AP5, SV-AP6 and AMBIENT BACKGROUND-1 were analyzed for Volatile Organic Compounds in accordance with EPA Method TO-15. The samples were analyzed on 03/14/2013 and 03/15/2013.

Sample SV-AP6[3X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the VOC analyses.

All quality control parameters were within the acceptance limits.

Sample Summary

Roux Associates

Job No: JB31674

Pfizer, Site D, Brooklyn, New York
Project No: 0047.004Y039

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JB31674-1	03/14/13	15:55 KC	03/16/13	AQ	Ground Water	MW-D1I
JB31674-2	03/14/13	15:10 KC	03/16/13	AQ	Ground Water	MW-D2
JB31674-3	03/14/13	16:07 KC	03/16/13	AQ	Ground Water	MW-D1
JB31674-4	03/14/13	14:23 KC	03/16/13	AQ	Ground Water	MW-D3
JB31674-5	03/14/13	15:07 KC	03/16/13	AQ	Ground Water	MW-D2I
JB31674-5D	03/14/13	15:07 KC	03/16/13	AQ	Water Dup/MSD	MW-D2I MSD
JB31674-5S	03/14/13	15:07 KC	03/16/13	AQ	Water Matrix Spike	MW-D2I MS
JB31674-6	03/14/13	14:10 KC	03/16/13	AQ	Ground Water	MW-D3I
JB31674-7	03/14/13	14:25 KC	03/16/13	AQ	Ground Water	DUP-031413
JB31674-8	03/14/13	11:45 KC	03/16/13	AQ	Field Blank Water	FB-031413
JB31674-9	03/14/13	16:07 KC	03/16/13	AQ	Trip Blank Water	TRIP BLANK

CASE NARRATIVE / CONFORMANCE SUMMARY**Client:** Roux Associates**Job No** JB31674**Site:** Pfizer, Site D, Brooklyn, New York**Report Date** 4/2/2013 2:58:56 PM

On 03/16/2013, 7 Sample(s), 1 Trip Blank(s) and 1 Field Blank(s) were received at Accutest Laboratories at a temperature of 2 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB31674 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method SW846 8260B**Matrix:** AQ**Batch ID:** V2B4796

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB31674-5MS, JB31674-5MSD were used as the QC samples indicated.
- JB31674-5MS for Tetrachloroethene: Outside in house control limits.
- JB31674-5MS for cis-1,2-Dichloroethene: Outside in house control limits.

Matrix: AQ**Batch ID:** V2B4803

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB31674-6MS, JB31674-6MSD were used as the QC samples indicated.
- JB31674-6MS for Tetrachloroethene: Outside in house control limits.
- JB31674-6MS for Styrene: Outside in house control limits.
- JB31674-6MS for cis-1,2-Dichloroethene: Outside in house control limits.

Matrix: AQ**Batch ID:** V2B4805

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB32049-1MS, JB32049-1MSD were used as the QC samples indicated.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

Data Validation Services

120 Cobble Creek Road P.O. Box 208

North Creek, NY 12853

Phone 518-251-4429

harry@frontiernet.net

August 13, 2013; Revised December 10, 2013

Wai Kwan
Roux Associates
209 Shafter St.
Islandia, NY 11747

RE: **Data Usability Summary Report (DUSR) for the Pfizer Inc Site B Remedial Investigation**
Air Samples
TAL-VT SDG No. 200-17583-1

Dear Mr. Kwan:

Review has been completed for the data packages generated by TestAmerica Laboratories that pertains to analysis of air samples collected 07/17/13 at the Pfizer RI Site B. Seven 6 L canister air samples were analyzed for volatile analytes by USEPA GC/MS method TO-15.

The data packages submitted by the laboratory contain full deliverables for validation, but this usability report is generated from review of the QC summary form information, with full review of sample raw data and limited review of associated QC raw data. The reported QC summary forms and raw data have been reviewed for application of validation qualifiers, with guidance from the USEPA Region II validation SOP HW-31, and in consideration of the specific requirements of the analytical methodology. The following items were reviewed:

- * Data Completeness
- * Case Narrative
- * Custody Documentation
- * Holding Times
- * Internal Standard Recoveries
- * Method and Clean Canister Blanks
- * Laboratory Control Samples (LCSs)
- * Instrumental Tunes
- * Initial and Continuing Calibration Standards
- * Method Compliance
- * Sample Result Verification

The data review includes evaluation of the specific items noted in The NYS DER-10 Appendix B section 2.0 (c). The items listed above that show deficiencies are discussed within the text of this narrative. The laboratory QC forms illustrating the excursions can be found within the laboratory data packages.

In summary, sample processing was conducted in compliance with the analysis protocol. All sample reported results are usable as reported.

Copies of the laboratory sample identification summary and case narrative are attached to this text. Also attached are client results tables.

Chain-of-Custody

There is no time noted in the initial relinquish entries on the custody forms.

Volatile Analyses by TO-15

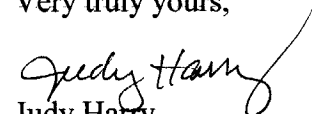
Holding times were met and internal standard recoveries are acceptable. Instrument tunes meet fragmentation requirements, and method blanks show no contamination.

Initial and continuing calibration verification responses are within analytical limits and validation guidelines.

Clean canister certification summaries were provided, and show no contamination.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,


Judy Harry

VALIDATION DATA QUALIFIER DEFINITIONS

- U** The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
- J** The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
- UJ** The analyte was not detected. The associated reported quantitation limit is an estimate and may be inaccurate or imprecise.
- NJ** The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
- R** The data are unusable. The analyte may or may not be present.
- EMPC** The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

**CLIENT and LABORATORY SAMPLE IDs
and LABORATORY CASE NARRATIVE**

SAMPLE SUMMARY

Client: Roux Associates, Inc.

Job Number: 200-17583-1

Sdg Number: 200-17583

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
200-17583-1	SV-AP7	Air	07/17/2013 1021	07/22/2013 0910
200-17583-2	SV-AP1	Air	07/17/2013 0932	07/22/2013 0910
200-17583-3	SV-AP3	Air	07/17/2013 1015	07/22/2013 0910
200-17583-4	SV-AP8	Air	07/17/2013 1036	07/22/2013 0910
200-17583-5	AMB-071713	Air	07/17/2013 1050	07/22/2013 0910
200-17583-6	SV-AP9	Air	07/17/2013 1242	07/22/2013 0910
200-17583-7	SV-AP10	Air	07/17/2013 1120	07/22/2013 0910

CASE NARRATIVE

Client: Roux Associates, Inc.

Project: Pfizer Site B Air Sampling (Summa)

Report Number: 200-17583-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 07/22/2013; the samples arrived in good condition.

VOLATILE ORGANIC COMPOUNDS

Samples SV-AP7, SV-AP1, SV-AP3, SV-AP8, AMB-071713, SV-AP9 and SV-AP10 were analyzed for Volatile Organic Compounds in accordance with EPA Method TO-15. The samples were analyzed on 07/31/2013.

Samples SV-AP7[4X], SV-AP3[102X], SV-AP8[5X], SV-AP9[6.06X] and SV-AP10[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the VOC analysis.

All quality control parameters were within the acceptance limits.

Data Validation Services

120 Cobble Creek Road P.O. Box 208
North Creek, NY 12853

Phone 518-251-4429
harry@frontiernet.net

October 25, 2013; Revised December 10, 2013

Wai Kwan
Roux Associates
209 Shafter St.
Islandia, NY 11747

RE: **Data Usability Summary Report (DUSR) for the Pfizer Site D Williamsburg Samples**
TAL-VT SDG No. NY119444

Dear Mr. Kwan:

Review has been completed for the data package generated by TestAmerica Laboratories that pertains to analysis of air samples collected 04/05/07 at the Pfizer Site D. Six 6 L canister air samples were analyzed for volatile analytes by USEPA GC/MS method TO-15.

The data packages submitted by the laboratory contain full deliverables for validation, but this usability report is generated from review of the QC summary form information, with full review of sample raw data and limited review of associated QC raw data. The reported QC summary forms and raw data have been reviewed for application of validation qualifiers, with guidance from the USEPA Region II validation SOP HW-31, and in consideration of the specific requirements of the analytical methodology. The following items were reviewed:

- * Data Completeness
- * Case Narrative
- * Custody Documentation
- * Holding Times
- * Internal Standard Recoveries
- * Method and Clean Canister Blanks
- * Laboratory Control Samples (LCSs)
- * Instrumental Tunes
- * Initial and Continuing Calibration Standards
- * Method Compliance
- * Sample Result Verification

The data review includes evaluation of the specific items noted in The NYS DER-10 Appendix B section 2.0 (c). The items listed above that show deficiencies are discussed within the text of this narrative. The laboratory QC forms illustrating the excursions can be found within the laboratory data packages.

In summary, sample processing was conducted in compliance with the analysis protocol. All sample reported results are usable either as reported or with minor qualification.

Copies of the laboratory sample identification summary and case narrative are attached to this text. Also attached is the qualified client results table.

Volatile Analyses by TO-15

The canisters for SV-2, SV-3, SV-4, and SV-6 were received with no residual vacuum. Therefore, results for those samples have been qualified as estimated in value.

Due to matrix interferences in the mass spectra, the results for ethylbenzene and xylenes in SV-2 have been qualified as tentative in identification and estimated in value, and the results for 4-ethyltoluene and 1,3,5-trimethylbenzene in that sample have been edited to reflect non-detection.

Holding times were met and internal standard recoveries are acceptable. Instrument tunes meet fragmentation requirements, and method blanks show no contamination.

Initial and continuing calibration verification responses are within analytical limits and validation guidelines, with the exception of the linearity of 1,2,4-trichlorobenzene and hexachlorobutadiene (38%RSD and 40%RSD). Results for these two analytes have been qualified as estimated in the project samples.

The duplicate LCSs show outlying low recoveries for 1,2,4-trichlorobenzene (59% and 67%) in both LCSs, and for hexachlorobutadiene and naphthalene (62% and 68%) in the LCS, but not the LCSD. Results for all three analytes have been qualified as estimated in the project samples.

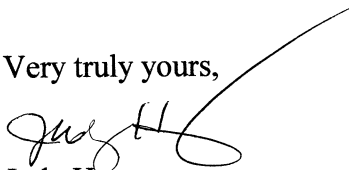
Clean canister certification summaries were provided, and show no contamination.

SV-6 was processed at initial dilution due to target analyte concentrations. Therefore, reporting limits for analytes not detected in the sample are proportionally elevated.

The results forms for SV-2 were not found in the summary section of the data package, but are located with the raw data.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,



Judy Harry

VALIDATION DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.

J The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.

UJ The analyte was not detected. The associated reported quantitation limit is an estimate and may be inaccurate or imprecise.

NJ The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.

R The data are unusable. The analyte may or may not be present.

EMPC The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

**CLIENT and LABORATORY SAMPLE IDs
and LABORATORY CASE NARRATIVE**

April 25, 2007

Mr. Rob Kovacs
Roux Associates
1377 Motor Parkway
Islandia, NY 11749

STL Burlington
30 Community Drive, Suite 11
South Burlington, VT 05403

Tel: 802 660 1990 Fax: 802 660 1919
www.stl-inc.com

Re: Laboratory Project No. Pfizer
Case: Pfizer; SDG: NY119444

Dear Mr. Kovacs:

Enclosed are the analytical results for the samples that were received by STL Burlington on April 7th, 2007. Laboratory identification numbers were assigned, and designated as follows:

<u>Lab ID</u>	<u>Client Sample ID</u>	<u>Sample Date</u>	<u>Sample Matrix</u>
Received: 04/07/07 ETR No: 119444			
705968	SV-1	04/05/07	AIR
705969	SV-2	04/05/07	AIR
705970	SV-3	04/05/07	AIR
705971	SV-4	04/05/07	AIR
705972	SV-5	04/05/07	AIR
705973	SV-6	04/05/07	AIR

Documentation of the condition of the samples at the time of their receipt and any exception to the laboratory's Sample Acceptance Policy is documented in the Sample Handling section of this submittal.

Method TO-15 – Volatile Organics:

The laboratory determined the canister vacuum pressure reading for the field samples SV-2 (+0.0" hg), SV-3 (+0.8" hg), SV-4 (+0.9" hg) and SV-6 (+0.7" hg) to be at an ambient condition. The client was notified of this issue and directed the laboratory to proceed with the analysis as normal.

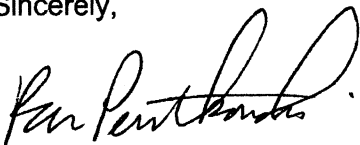
The analysis of the field sample SV-6 accomplished at a dilution in order to get the response of the analyte with the highest concentration within the initial calibration range. Only the results for the dilution analysis were provided.

The analysis of the Laboratory Control Sample (LCS), BA042307LCS, which was associated with the field samples SV-1, SV-2, SV-3, SV-4, SV-5 and SV-6 exhibited recoveries for the target compounds 1,2 4-Trichlorobenzene, Hexachlorobutadiene, and Naphthalene that were below the established control limits (70-130%). The analysis of the duplicate LCS yielded a percent recovery that was marginally below the control limits. These analytes were not detected in the noted field samples.

The analytical results associated with the samples presented in this test report were generated under a quality system that adheres to requirements specified in the NELAC standard. Release of the data in this test report and any associated electronic deliverables is authorized by the Laboratory Director's designee as verified by the following signature.

If there are any questions regarding this submittal, please contact me at 802 660-1990.

Sincerely,



Ron Pentkowski
Project Manager

Enclosure

**Remedial Investigation Report
for Operable Unit 1**

APPENDIX H

Hazardous Waste Manifests

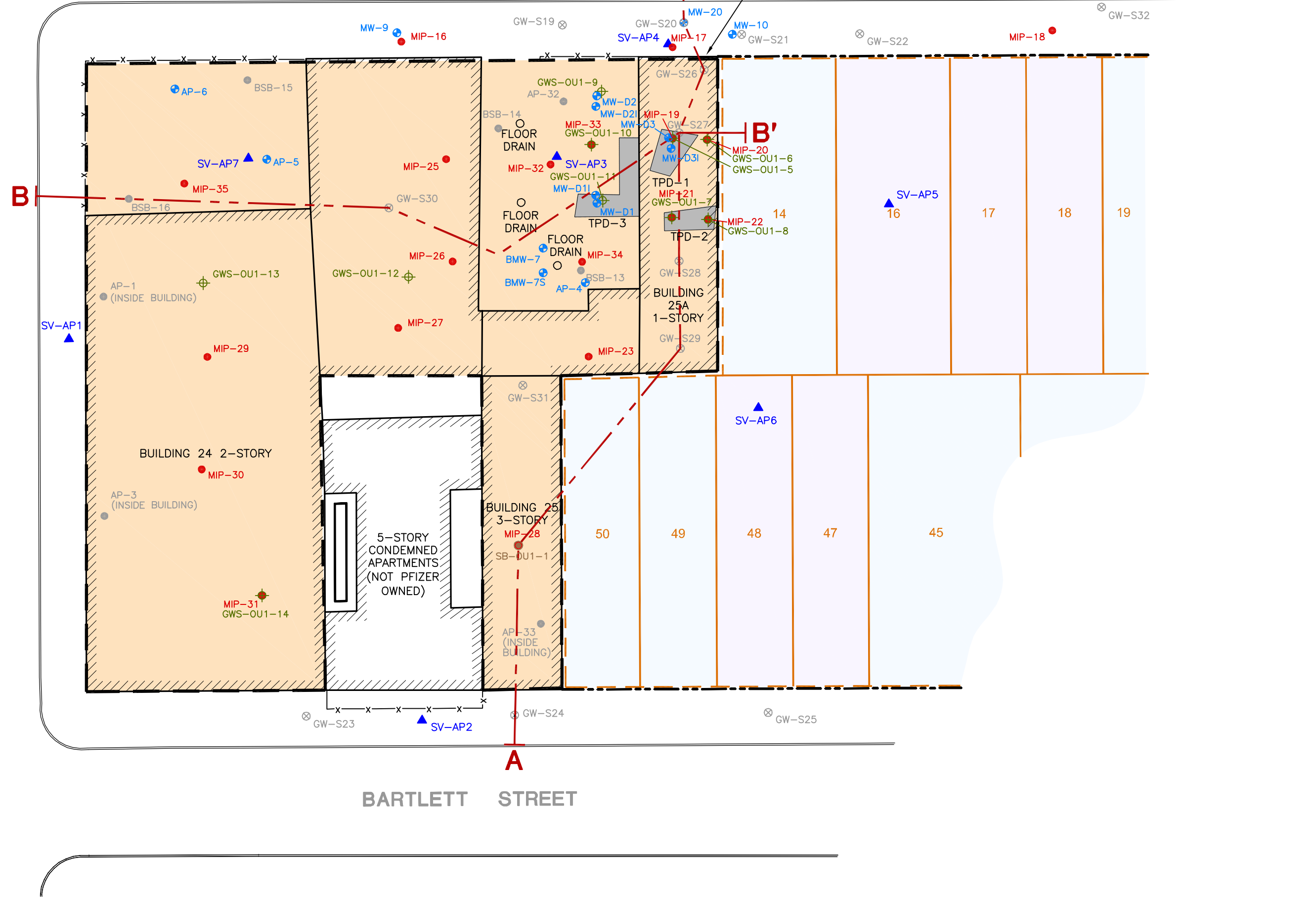
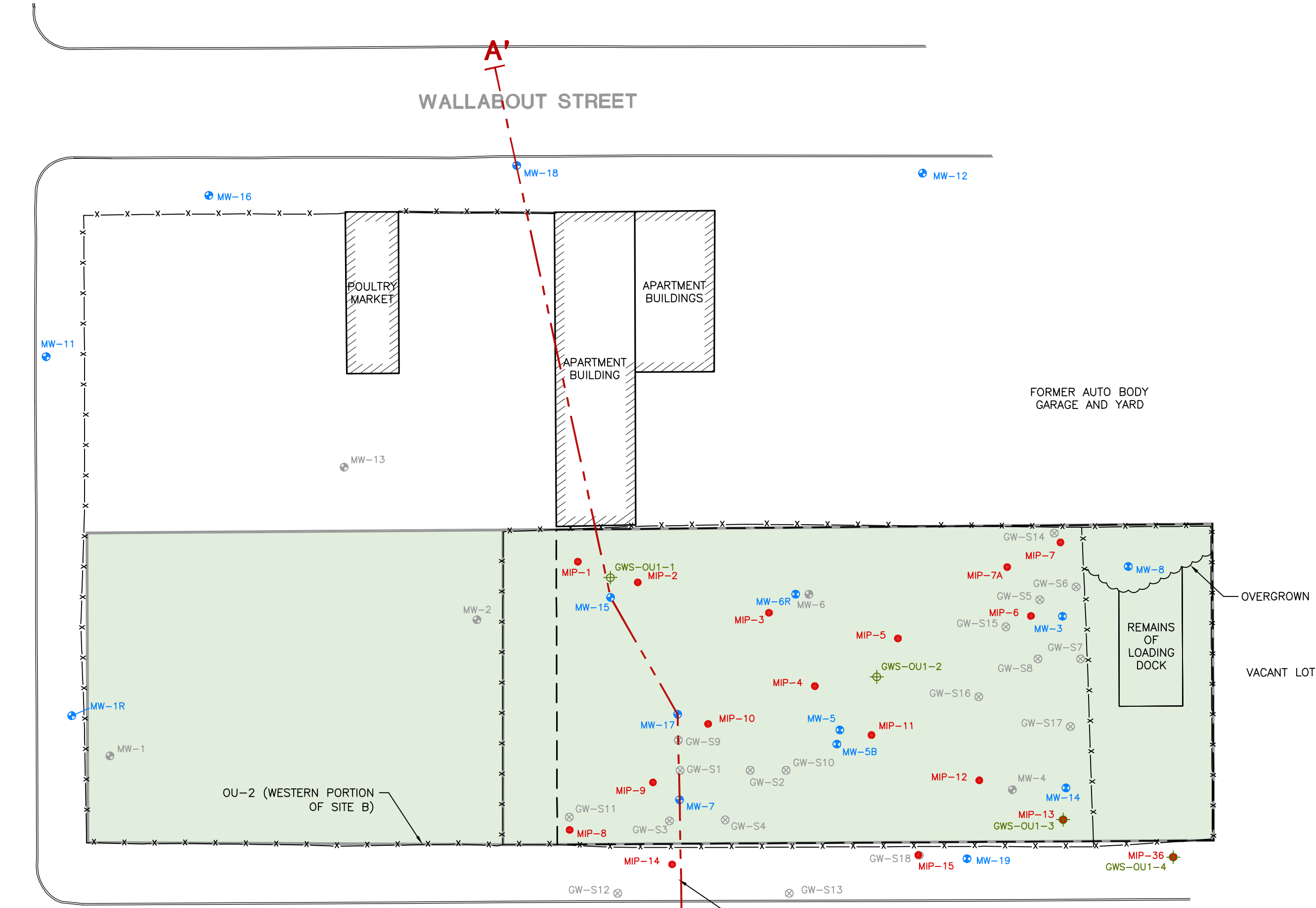
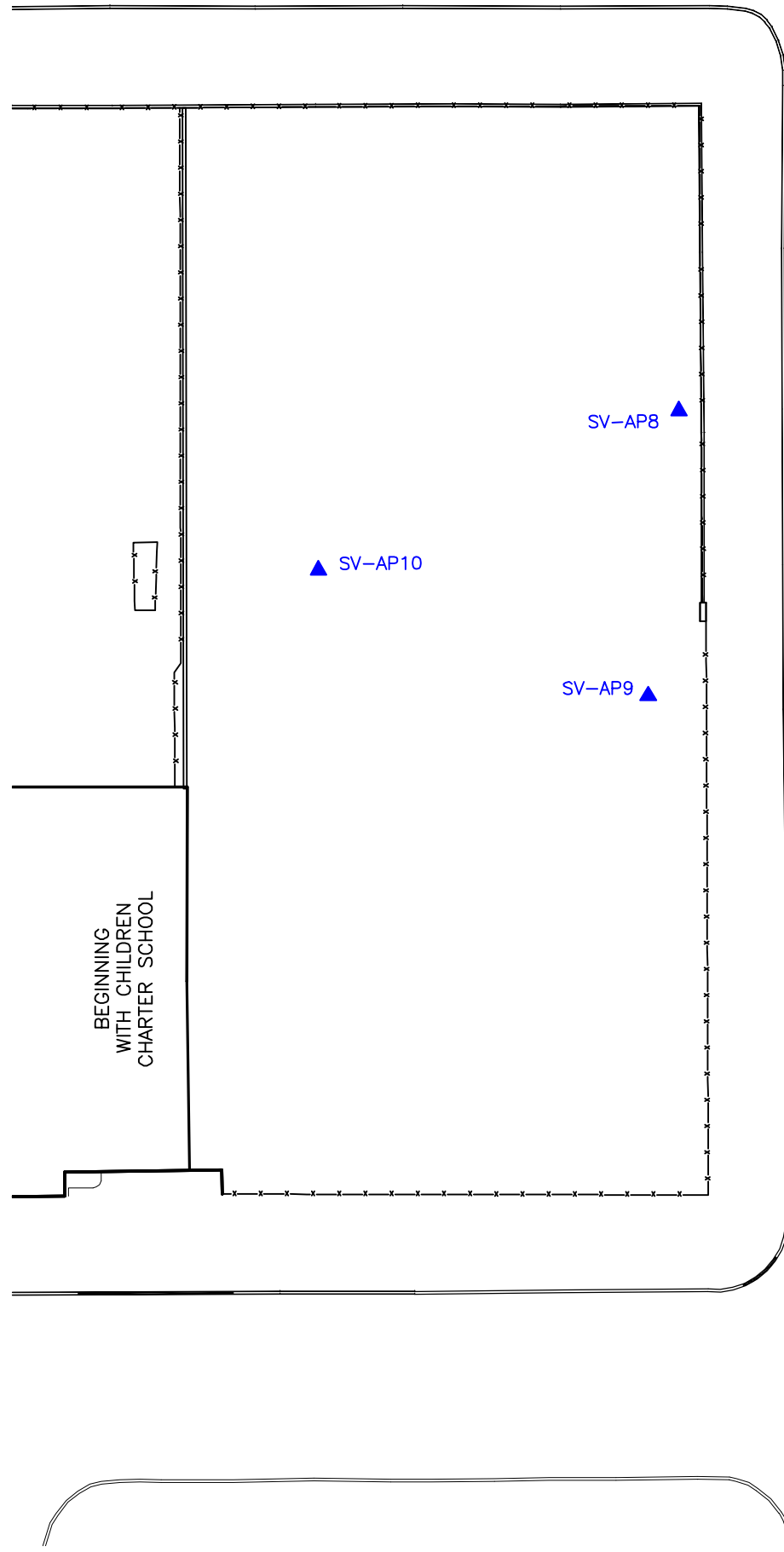
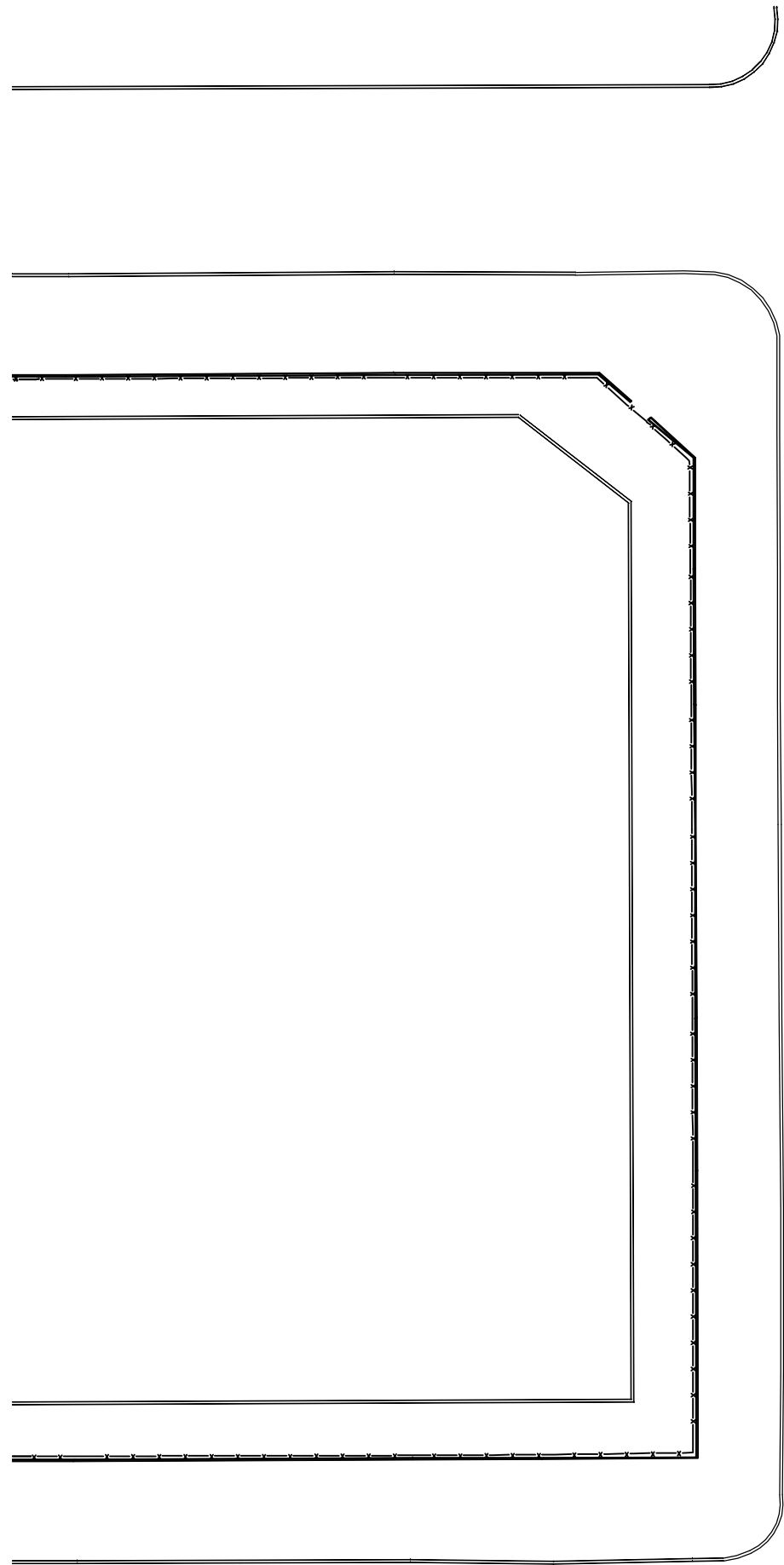
UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYC 001513779		2. Page 1 of 1		3. Emergency Response Phone (377) 818-0087		4. Manifest Tracking Number 000680411 VES					
		5. Generator's Name and Mailing Address PFIZER 100 ROUTE 206N (M/S 414) PEAPACK, NJ 07977 Generator's Phone: 908 901-7096		Generator's Site Address (if different than mailing address) PFIZER 60-66 GERRY ST BROOKLYN, NY 11206									
GENERATOR		6. Transporter 1 Company Name VEOLIA ES TECHNICAL SOLUTIONS						U.S. EPA ID Number NJ D 0 8 0 6 3 1 3 6 9					
		7. Transporter 2 Company Name						U.S. EPA ID Number					
DESIGNATED FACILITY		8. Designated Facility Name and Site Address VEOLIA ES TECHNICAL SOLUTIONS L.L.C. 1 EDEN LANE FLANDERS, NJ 07836 Facility's Phone: 973 347-7111						U.S. EPA ID Number NJ D 9 8 0 5 3 6 5 9 3					
CONTAINER		9a. HM		9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers No. Type		11. Total Quantity		12. Unit Wt./Vol.		13. Waste Codes	
		X		1. NA3082, HAZARDOUS WASTE, LIQUID, n.o.s., (TETRACHLOROETHYLENE), 9, III		4 DM		1600		P		F002 E U210	
		X		2. NA3077, HAZARDOUS WASTE, SOLID, n.o.s., (TETRACHLOROETHYLENE), 9, III		4 DM		1600		P		F002 E U210	
				3.									
				4.									
14. Special Handling Instructions and Additional Information ER Service Contracted by VESTS													
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.													
Generator's/Officer's Printed/Typed Name: MATTHEW BASSO, CHMM Signature: Matthew Basso Month: 05 Day: 07 Year: 13													
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____													
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name: Frank W. Dotson Signature: Frank W. Dotson Month: 05 Day: 17 Year: 13 Transporter 2 Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____													
18. Discrepancy 18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection Manifest Reference Number: _____													
18b. Alternate Facility (or Generator) U.S. EPA ID Number: _____ Facility's Phone: _____													
18c. Signature of Alternate Facility (or Generator) _____ Month: _____ Day: _____ Year: _____													
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. H111 2. H111 3. 4. _____													
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name: NICOL CENTER Signature: _____ Month: 05 Day: 21 Year: 13													

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD001513779		2. Page 1 of 1	3. Emergency Response Phone (877) 818-0087		4. Manifest Tracking Number 000680416 VES			
		5. Generator's Name and Mailing Address PFIZER 100 ROUTE 206N (M/S 414) PEAPACK, NJ 07977		Generator's Site Address (if different than mailing address) PFIZER 60-66 GERRY ST BROOKLYN, NY 11206						
6. Transporter 1 Company Name VEOLIA ES TECHNICAL SOLUTIONS		U.S. EPA ID Number NJ D 0 8 0 6 3 1 3 6 9								
7. Transporter 2 Company Name		U.S. EPA ID Number								
8. Designated Facility Name and Site Address VEOLIA ES TECHNICAL SOLUTIONS L.L.C. 1 EDEN LANE FLANDERS, NJ 07836		U.S. EPA ID Number								
Facility's Phone: 973 347-7111										
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
	X	1. NA3082, HAZARDOUS WASTE, LIQUID, n.o.s., (TETRACHLOROETHYLENE), 9, III			DM			P	F002 B U210	
	X	2. NA3077, HAZARDOUS WASTE, SOLID, n (TETRACHLOROETHYLENE), 9, III			1 DM			P	B	
		3.								
		4.								
14. Special Handling Instructions and Additional Information										
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.										
Generator's/Offor's Printed/Typed Name MATTHEW BASSO					Signature Matthew Basso		Month Day Year 06/04/13			
INT'L	16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:									
	17. Transporter Acknowledgment of Receipt of Materials									
TRANSPORTER	Transporter 1 Printed/Typed Name Brian F. Ludwig					Signature Brian F. Ludwig		Month Day Year 06/04/13		
	Transporter 2 Printed/Typed Name					Signature		Month Day Year		
DESIGNATED FACILITY	18. Discrepancy									
	18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection									
	Manifest Reference Number:									
	18b. Alternate Facility (or Generator)					U.S. EPA ID Number				
	Facility's Phone:									
18c. Signature of Alternate Facility (or Generator)							Month Day Year			
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal and recycling systems)										
1. 4111			2. 4111			3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a										
Printed/Typed Name NICK					Signature TBR		Month Day Year 6/7/13			

Remedial Investigation Report for Operable Unit 1

PLATES

1. Site Plan
2. Cross Sections
3. Groundwater Flow Direction March 13-14, 2013
4. VOCs Detected in Soil at Site B and Site D
5. SVOCs Detected in Soil at Site B and Site D
6. Metals, Cyanide, PCBs Pesticides and Herbicides in Soil at Site B and Site D
7. VOCs Detected in Groundwater at Site B and Site D
8. SVOCs Detected in Groundwater at Site B and Site D
9. Metals, Cyanide, PCBs Pesticides and Herbicides in Groundwater at Site B and Site D
10. Generalized Extent of CVOCs in Groundwater – September 2013
11. VOCs Detected in Soil Vapor



- LEGEND
- EXISTING BUILDINGS OR STRUCTURES
 - LOCATION AND DESIGNATION OF EXISTING MONITORING WELL
 - LOCATION AND DESIGNATION OF DESTROYED MONITORING WELL
 - LOCATION AND DESIGNATION OF MEMBRANE INTERFACE PROBE (MIP) SAMPLING POINT
 - LOCATION AND DESIGNATION OF SOIL VAPOR SAMPLING POINT
 - LOCATION AND DESIGNATION OF DISCRETE GROUNDWATER/SOIL SAMPLING POINT
 - LOCATION AND DESIGNATION OF SOIL BORING
 - LOCATION AND DESIGNATION OF PREVIOUS SOIL SAMPLING POINT
 - LOCATION AND DESIGNATION OF PREVIOUS DISCRETE GROUNDWATER/SOIL SAMPLING POINT
 - LOT NUMBER DESIGNATION
 - LOT OWNED BY CITY OF NEW YORK
 - PRIVATELY OWNED LOT
 - SITE D (FORMER ARLINGTON PRESS)
 - SITE B
 - LOCATION AND DESIGNATION OF TEST TRENCH
 - VACANT LOT (NOT PFIZER OWNED)
 - FORMER PFIZER PROPERTY LINE
 - FENCE
 - LINE OF SECTION



Title:

SITE PLAN

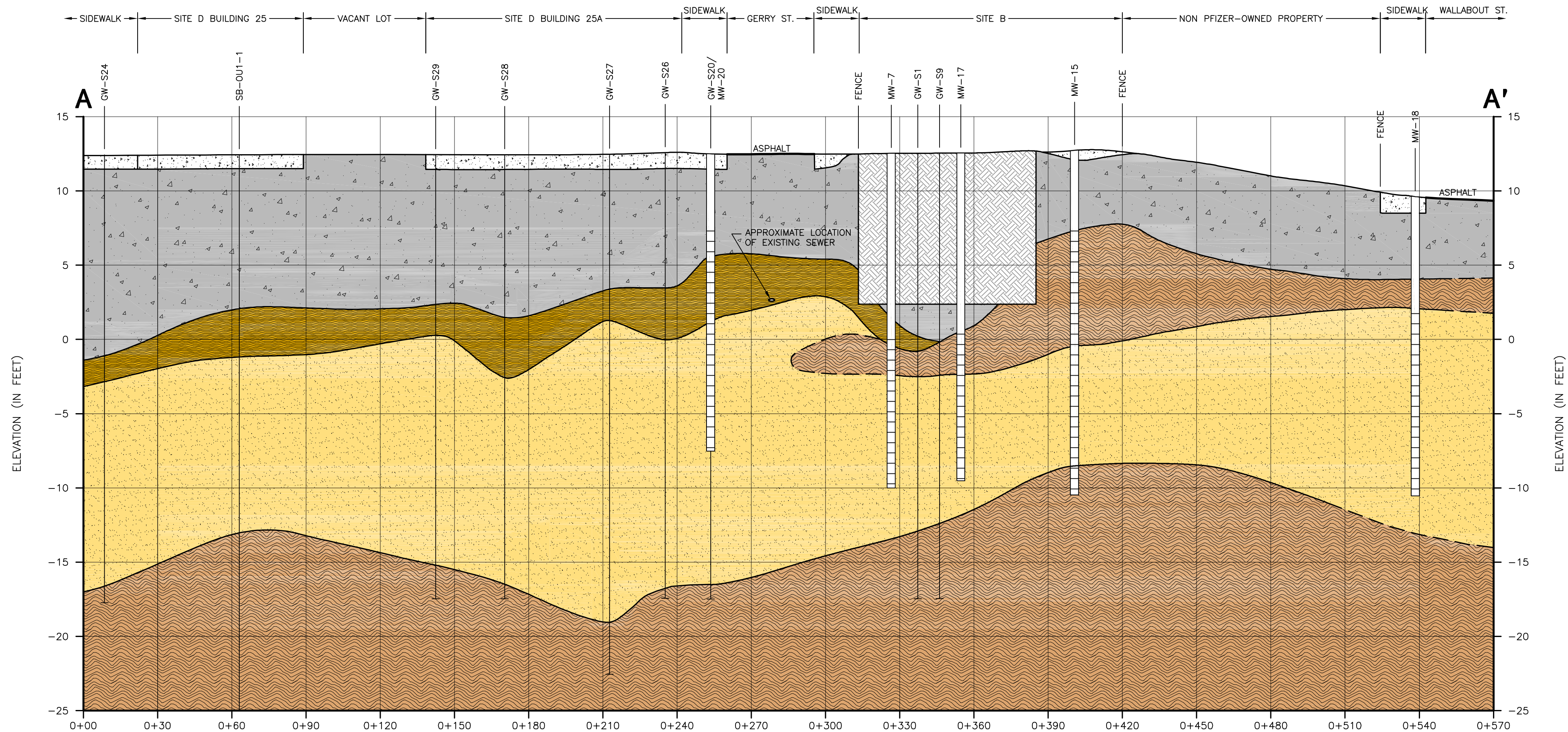
SITE B AND SITE D OU-1 RIR

Prepared For: PFIZER INC
BROOKLYN, NEW YORK

Compiled by: E.L.	Date: 11DEC13	PLATE
Prepared by: J.A.D.	Scale: AS SHOWN	
Project Mgr: W.K.	Project: 0047.0044Y039	
File: 0047.0044Y563R.02.DWG		

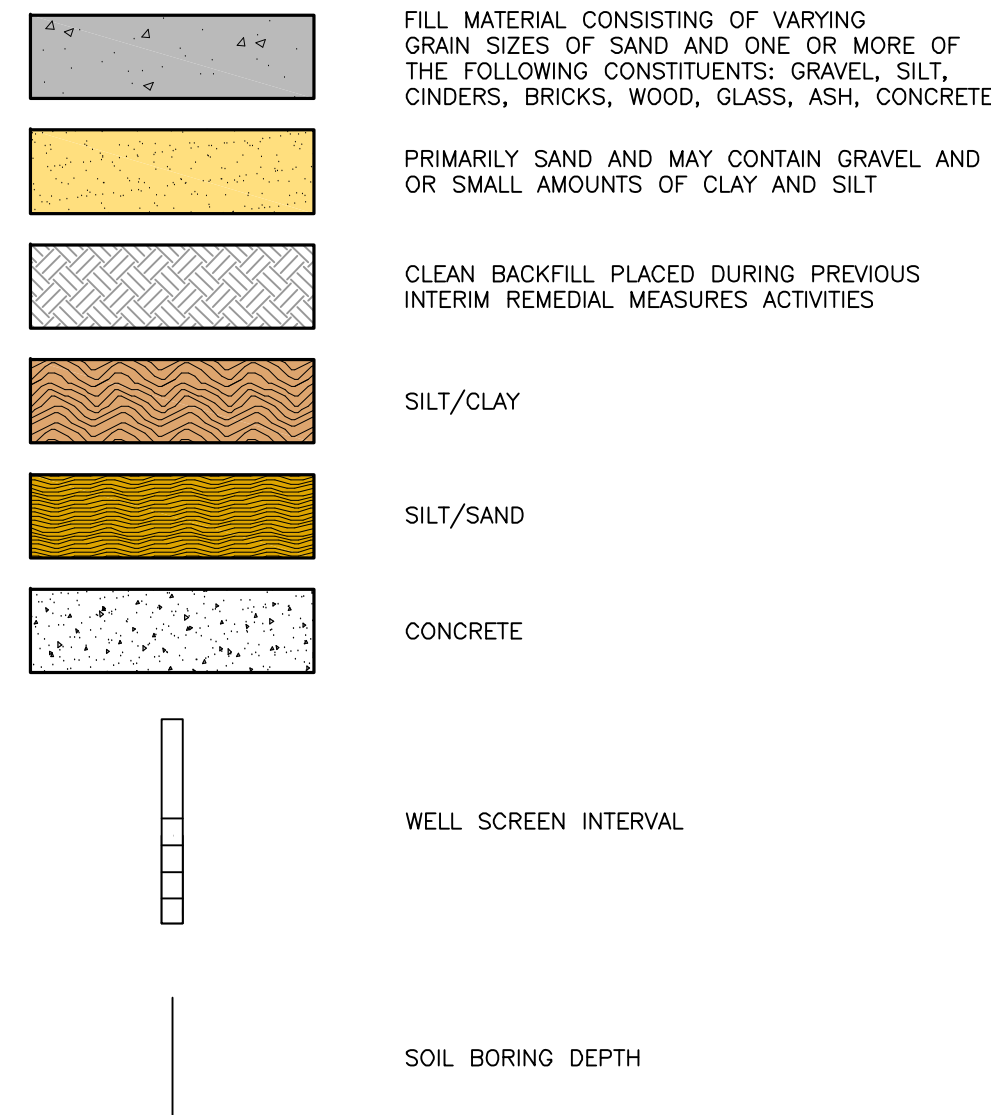
ROUX
Environmental Consulting
& Management

1



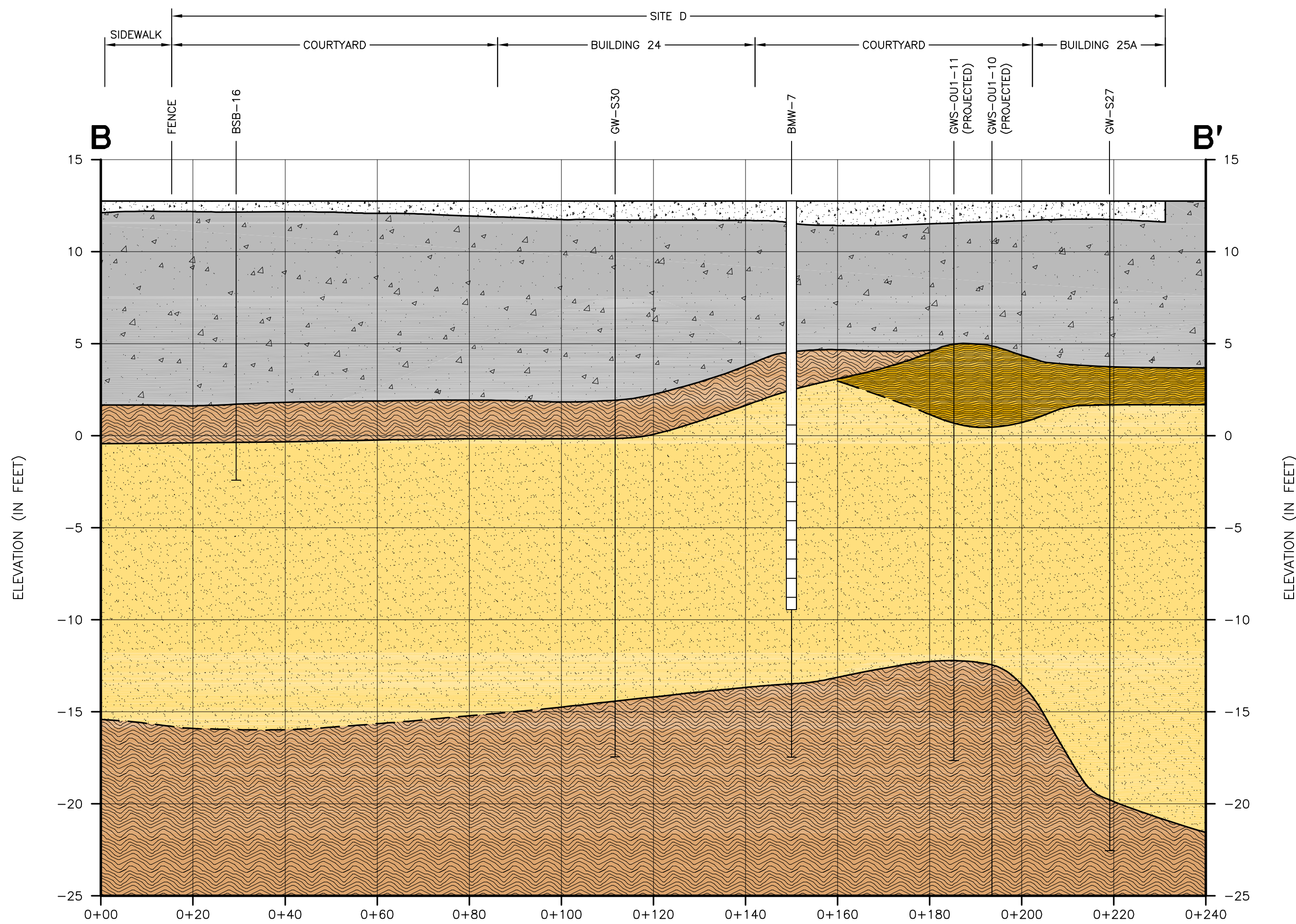
SECTION A-A'
HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 5'
VERTICAL EXAGGERATION: 6X

LEGEND



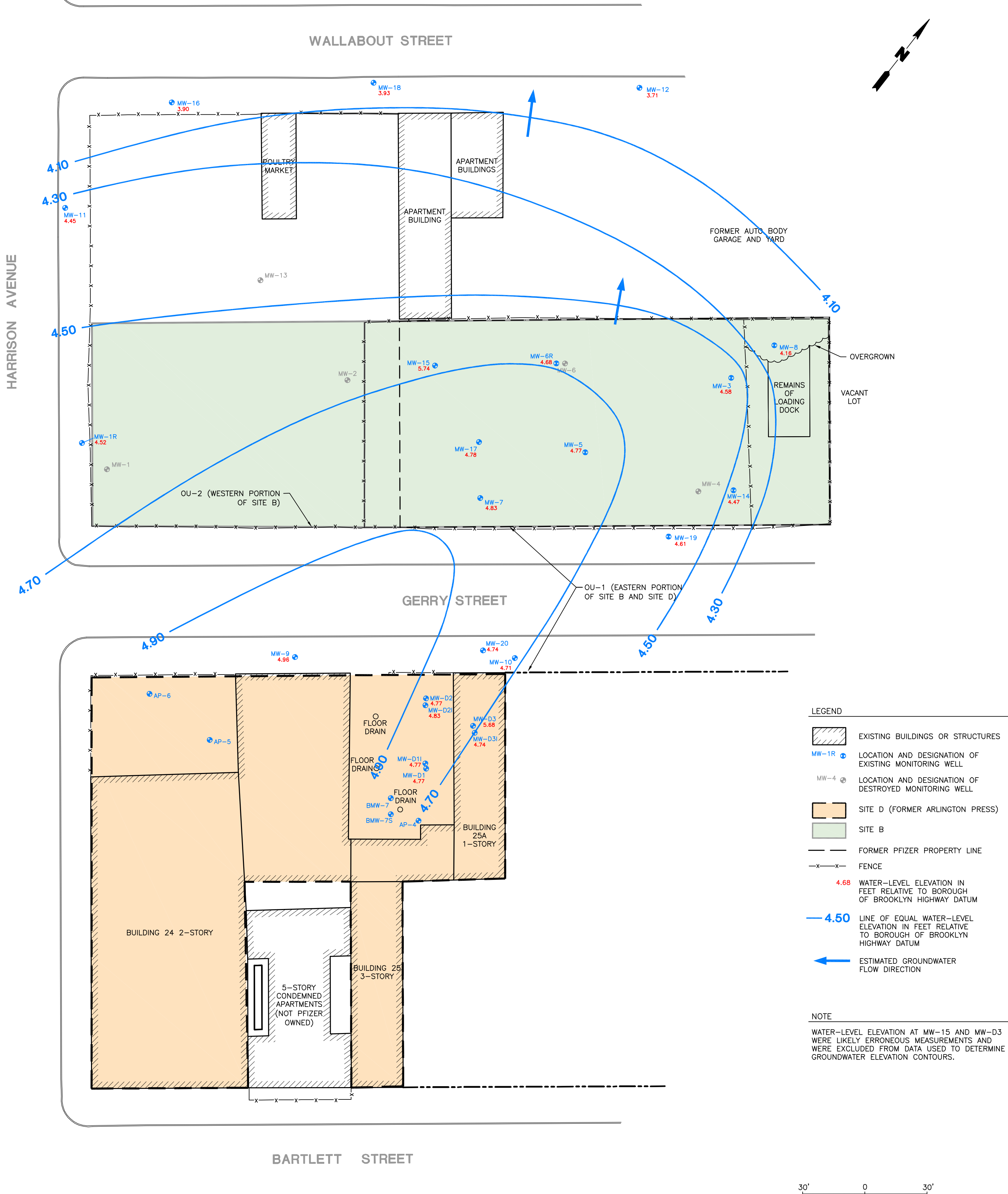
NOTES

1. DASHED LINES INDICATE INFERRED DELINEATION BETWEEN LAYERS.
2. ELEVATION IN FEET RELATIVE TO BOROUGH OF BROOKLYN HIGHWAY DATUM.
3. SB-OU1-1 AND GWS-OU1-10 EXTEND BELOW MAXIMUM DEPTH OF SECTION.
4. PROJECTED LOCATIONS WERE PROJECTED THE SHORTEST DISTANCE (PERPENDICULAR) TO SECTION LINES.



SECTION B-B'
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'
VERTICAL EXAGGERATION: 4X

V:\CAD\PROJECTS\0047\0044\563R\0047.0044\563R.13.DWG



LEGEND

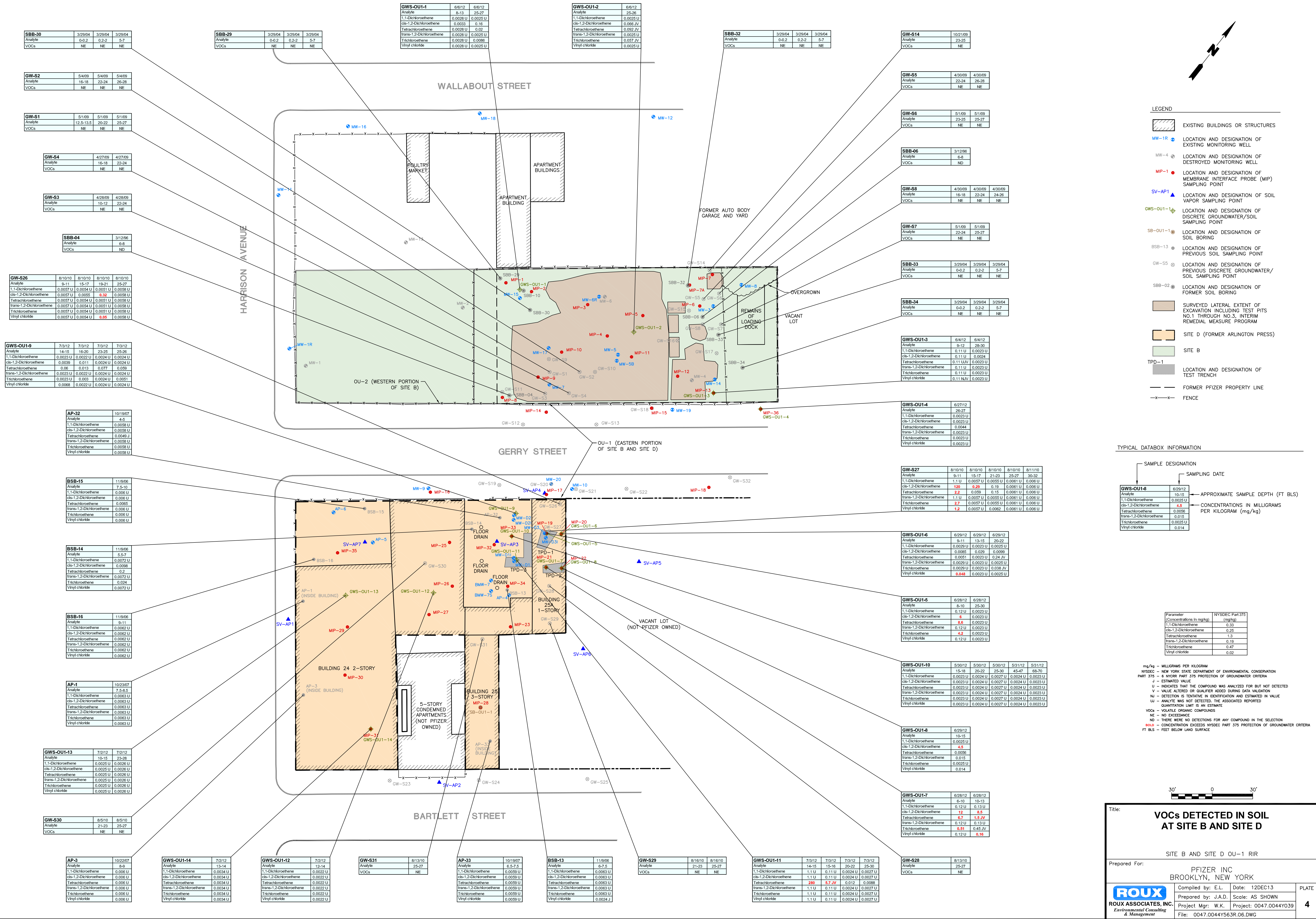
- EXISTING BUILDINGS OR STRUCTURES
- MW-1R LOCATION AND DESIGNATION OF EXISTING MONITORING WELL
- MW-4 LOCATION AND DESIGNATION OF DESTROYED MONITORING WELL
- SITE D (FORMER ARLINGTON PRESS)
- SITE B
- FORMER PFIZER PROPERTY LINE
- FENCE
- 4.68 WATER-LEVEL ELEVATION IN FEET RELATIVE TO BOROUGH OF BROOKLYN HIGHWAY DATUM
- 4.50 LINE OF EQUAL WATER-LEVEL ELEVATION IN FEET RELATIVE TO BOROUGH OF BROOKLYN HIGHWAY DATUM
- ESTIMATED GROUNDWATER FLOW DIRECTION

NOTE

WATER-LEVEL ELEVATION AT MW-15 AND MW-D3 WERE LIKELY ERRONEOUS MEASUREMENTS AND WERE EXCLUDED FROM DATA USED TO DETERMINE GROUNDWATER ELEVATION CONTOURS.

Title: GROUNDWATER FLOW DIRECTION MARCH 13-14, 2013			
SITE B AND SITE D OU-1 RIR			
Prepared For: PFIZER INC BROOKLYN, NEW YORK			
ROUX ROUX ASSOCIATES, INC. Environmental Consulting and Management	Compiled by: E.L.	Date: 16DEC13	PLATE 3
	Prepared by: J.A.D.	Scale: AS SHOWN	
	Project Mgr: W.K.	Project: 0047.0044Y039	
	File: 0047.0044Y563R.13.DWG		

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SBB-10	4/21/97	4/21/97
Analyte	0-2	8-10
Metals	NE	NE

SBB-29	3/29/04	3/29/04	3/29/04
Analyte	0-0.2	0.2-2	5-7
Arsenic	387	49.7	10.7 B
Barium	1250	868	228
Lead	1776 *	1530 *	631 *
Mercury	1.9	2	3.5

GWS-OUI-1	6/8/12
Analyte	8-13
Metals	NE
Total PCBs	ND
Pesticides/Herbicides	ND
Cyanide, Free	0.34 U

SBB-30	3/29/04	3/29/04	3/29/04
Analyte	0-0.2	0.2-2	5-7
Barium	1200	209	156
Mercury	0.5	1.8	3.3

GW-S2	5/4/09
Analyte	22-24
Metals	NE

GW-S1	5/1/09	5/1/09
Analyte	12.5-13.5	20-22
Metals	NE	NE

GW-S3	4/28/09	4/28/09
Analyte	10-12	22-24
Metals	NE	NE

SBB-04	3/12/96	4/21/97
Analyte	6-8	0-2
Mercury	1.3	9.2

GW-S4	4/27/09
Analyte	22-24
Metals	NE

BSB-15	11/9/06
Analyte	7.5-10
Arsenic	6.5
Barium	1900
Chromium	180
Copper	180
Lead	150
Manganese	340
Mercury	0.49
Nickel	12
Zinc	430
Total PCBs	ND
Cyanide, Free	0.43

BSB-16	11/9/06
Analyte	9-11
Arsenic	3.6
Barium	79
Chromium	27
Copper	20
Lead	86
Manganese	250
Mercury	7.4
Nickel	17
Zinc	69
Total PCBs	ND
Cyanide, Free	0.31 U

AP-1	10/23/07
Analyte	7.5-8.5
Arsenic	6
Barium	88
Chromium	28
Copper	28
Lead	88
Manganese	450
Mercury	2.9
Nickel	14
Zinc	46
Total PCBs	ND
Cyanide, Free	6.3

GWS-OUI-13	7/2/12
Analyte	10-15
Metals	NE
Total PCBs	ND
Pesticides/Herbicides	ND
Cyanide, Free	0.31 U

AP-3	10/22/07
Analyte	10-15
Arsenic	4.5
Barium	8.9
Chromium	110
Copper	11
Lead	45
Manganese	200
Mercury	470
Nickel	1.2
Zinc	8.9
Total PCBs	ND
Cyanide, Free	0.3 U

GWS-OUI-14	7/2/12
Analyte	13-14
Metals	NE
Total PCBs	ND
Pesticides/Herbicides	ND
Cyanide, Free	0.42 U

GWS-OUI-12	7/2/12
Analyte	12-14
Metals	NE
Total PCBs	ND
Pesticides/Herbicides	ND
Cyanide, Free	0.27 U

AP-33	10/19/07
Analyte	6.5-7.5
Arsenic	2.9
Barium	39
Chromium	16
Copper	17
Lead	14
Manganese	240
Mercury	0.11
Nickel	8.3
Zinc	25
Total PCBs	ND
Cyanide, Free	0.29 U

BSB-13	11/9/06
Analyte	6.5-7.5
Arsenic	6.3
Barium	100
Chromium	9.2
Copper	289
Lead	160
Manganese	250
Mercury	10
Nickel	2.2
Selenium	14
Zinc	22
Total PCBs	71
Total PCBs	ND
Cyanide, Free	0.47

BSB-14	11/9/06
Analyte	15
Arsenic	5.7
Barium	320
Chromium	13
Copper	48
Lead	380
Manganese	460
Mercury	10
Nickel	14
Selenium	3.4
Zinc	240
Total PCBs	ND
Cyanide, Free	5.8

GWS-OUI-11	7/3/12
Analyte	14-16
Metals	NE
Total PCBs	ND
4,4'-DDO	0.0043
Herbicides	ND
Cyanide, Free	0.27 U

AP-32	10/19/07
Analyte	4-5
Arsenic	6.7
Barium	100
Chromium	20
Copper	59
Lead	460
Manganese	280
Mercury	3
Nickel	16
Zinc	160
Total PCBs	ND
Cyanide, Free	0.74

GWS-OUI-16	6/29/12	6/29/12
Analyte	9-11	13-15
Arsenic	25	2.4 U
Mercury	0.36	0.068 U
Total PCBs	ND	ND
Pesticides/Herbicides	ND	ND
Cyanide, Free	0.56	0.28 U

GWS-OUI-9	7/3/12
Analyte	14-15
Metals	NE
Total PCBs	ND
Pesticides/Herbicides	ND
Cyanide, Free	0.28 U

GWS-OUI-3	6/9/12
Analyte	9-12
Metals	NE
Total PCBs	ND
Pesticides/Herbicides	ND
Cyanide, Free	0.28 U

SBB-34	3/29/04	3/29/04	3/29/04
Analyte	0-0.2	0.2-2	5-7
Barium	708	334	162
Lead	2626 *	680 *	490 *
Mercury	2.8	3	1.3

SBB-33	3/29/04	3/29/04	3/29/04
Analyte	0-0.2	0.2-2	5-7
Arsenic	16.1	6.5 B	4.9 B
Barium	519	2350	99.7
Lead	738 *	2590 *	195 *

GW-S7	5/1/09
Analyte	22-24
Metals	NE

SBB-06	3/12/96	4/22/97
Analyte	6-8	0-2
Barium	41.5 U	535

GW-S6	5/1/09
Analyte	23-25
Metals	NE

GW-S5	4/30/09
Analyte	22-24
Metals	NE

SBB-32	3/29/04	3/29/04	3/29/04
Analyte	0-0.2	0.2-2	5-7
Arsenic	42.8	15.5	4.9 B
Barium	402	1228	76.9
Lead	712 *	1180 *	157 *
Mercury	61.4	31.4	6.1

LEGEND

- EXISTING BUILDINGS OR STRUCTURES
- LOCATION AND DESIGNATION OF EXISTING MONITORING WELL
- LOCATION AND DESIGNATION OF DESTROYED MONITORING WELL
- LOCATION AND DESIGNATION OF MEMBRANE INTERFACE PROBE (MIP) SAMPLING POINT
- LOCATION AND DESIGNATION OF SOIL VAPOR SAMPLING POINT
- LOCATION AND DESIGNATION OF DISCRETE GROUNDWATER/SOIL SAMPLING POINT
- LOCATION AND DESIGNATION OF SOIL BORING
- LOCATION AND DESIGNATION OF PREVIOUS SOIL SAMPLING POINT
- LOCATION AND DESIGNATION OF PREVIOUS DISCRETE GROUNDWATER/SOIL SAMPLING POINT
- LOCATION AND DESIGNATION OF FORMER SOIL BORING
- SURVEYED LATERAL EXTENT OF EXCAVATION INCLUDING TEST PITS NO.1 THROUGH NO.3, INTERIM REMEDIAL MEASURE PROGRAM
- SITE D (FORMER ARLINGTON PRESS)
- SITE B
- LOCATION AND DESIGNATION OF TEST TRENCH
- FORMER PFIZER PROPERTY LINE
- FENCE

TYPICAL DATABASE INFORMATION

SAMPLE DESIGNATION		SAMPLING DATE	
GWS-OUI-1	6/9/12	APPROXIMATE SAMPLE DEPTH (FT BLS)	
Analyte	8-13	CONCENTRATIONS IN MILLIGRAMS PER KILOGRAMS (mg/kg)	
Metals	NE		
Total PCBs	ND		
Pesticides/Herbicides	ND		
Cyanide, Free	0.34 U		

Parameter	NYSDEC Part 375 (Concentrations in mg/kg)
Arsenic	16
Barium	400
Chromium, hexavalent	110
Chromium, trivalent	180
Copper	270
Lead	400
Manganese	2300
Mercury	0.81
Nickel	310
Selenium	180
Silver	190
Zinc	10000
PCBs, Total	1
Cyanide, Free	27

mg/kg - MILLIGRAMS PER KILOGRAM
 NYSDEC - NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
 PART 375 - 6 NYCRR PART 375 RESTRICTED RESIDENTIAL USE CRITERIA
 J - ESTIMATED VALUE
 U - INDICATES THAT THE COMPOUND WAS ANALYZED FOR BUT NOT DETECTED
 B - THE ANALYTE WAS FOUND IN AN ASSOCIATED BLANK AS WELL AS IN THE SAMPLE
 - LCS OR LCSF EXCEEDS THE CONTROL LIMITS
 PCBs - POLYCHLORINATED BIPHENYLS
 NE - NO EXCEEDANCE
 ND - THERE WERE NO DETECTIONS FOR ANY COMPOUND IN THE SELECTION
 BOLD - CONCENTRATION EXCEEDS NYSDEC PART 375 RESTRICTED RESIDENTIAL USE CRITERIA
 FT. BLS - FEET BELOW LAND SURFACE

30' 0 30'

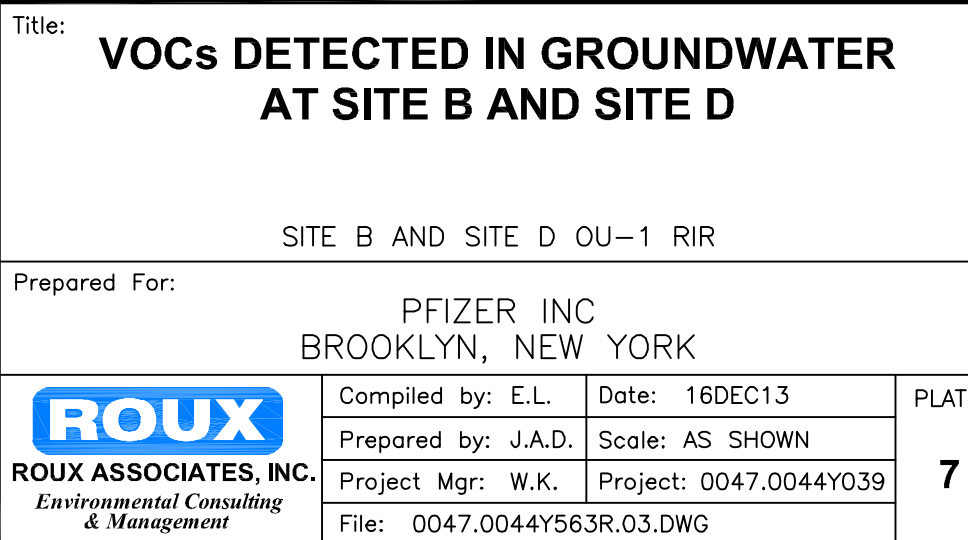
TITLE: METALS, CYANIDE, PCBs, PESTICIDES AND HERBICIDES DETECTED IN SOIL AT SITE B AND SITE D

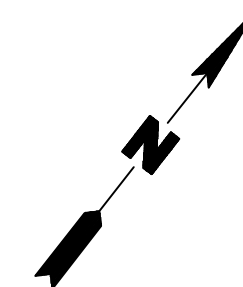
SITE B AND SITE D OUI-1 RIR

Prepared For: PFIZER INC
 BROOKLYN, NEW YORK

Compiled by: E.L.	Date: 20DEC13	PLATE
Prepared by: J.A.D.	Scale: AS SHOWN	
Project Mgr: W.K.	Project: 0047.0044Y039	6
File: 0047.0044Y563R.08.DWG		

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 Environmental Consulting & Management





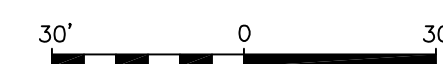
- LEGEND
- EXISTING BUILDINGS OR STRUCTURES
 - MW-1R LOCATION AND DESIGNATION OF EXISTING MONITORING WELL
 - MW-4 LOCATION AND DESIGNATION OF DESTROYED MONITORING WELL
 - MIP-1 LOCATION AND DESIGNATION OF MEMBRANE INTERFACE PROBE (MIP) SAMPLING POINT
 - SV-AP1 LOCATION AND DESIGNATION OF SOIL VAPOR SAMPLING POINT
 - GWS-OU1-1 LOCATION AND DESIGNATION OF DISCRETE GROUNDWATER/SOIL SAMPLING POINT
 - SB-OU1-1 LOCATION AND DESIGNATION OF SOIL BORING
 - BSB-13 LOCATION AND DESIGNATION OF PREVIOUS SOIL SAMPLING POINT
 - GW-S5 LOCATION AND DESIGNATION OF PREVIOUS DISCRETE GROUNDWATER/SOIL SAMPLING POINT
 - SITE D (FORMER ARLINGTON PRESS)
 - SITE B
 - TPD-1 LOCATION AND DESIGNATION OF TEST TRENCH
 - FORMER PFIZER PROPERTY LINE
 - FENCE

TYPICAL DATABOX INFORMATION

SAMPLE DESIGNATION		SAMPLING DATE	
MW-3	SVOCs	6/5/2012	ND
CONCENTRATIONS IN MICROGRAMS PER LITER (µg/L)			

Parameter	NYSDDEC AMWSGVs (Concentrations in µg/L)
Benz(a)anthracene	0.002
Benz(a)pyrene	Non-detect
Benz(b)fluoranthene	0.002
Chrysene	0.002

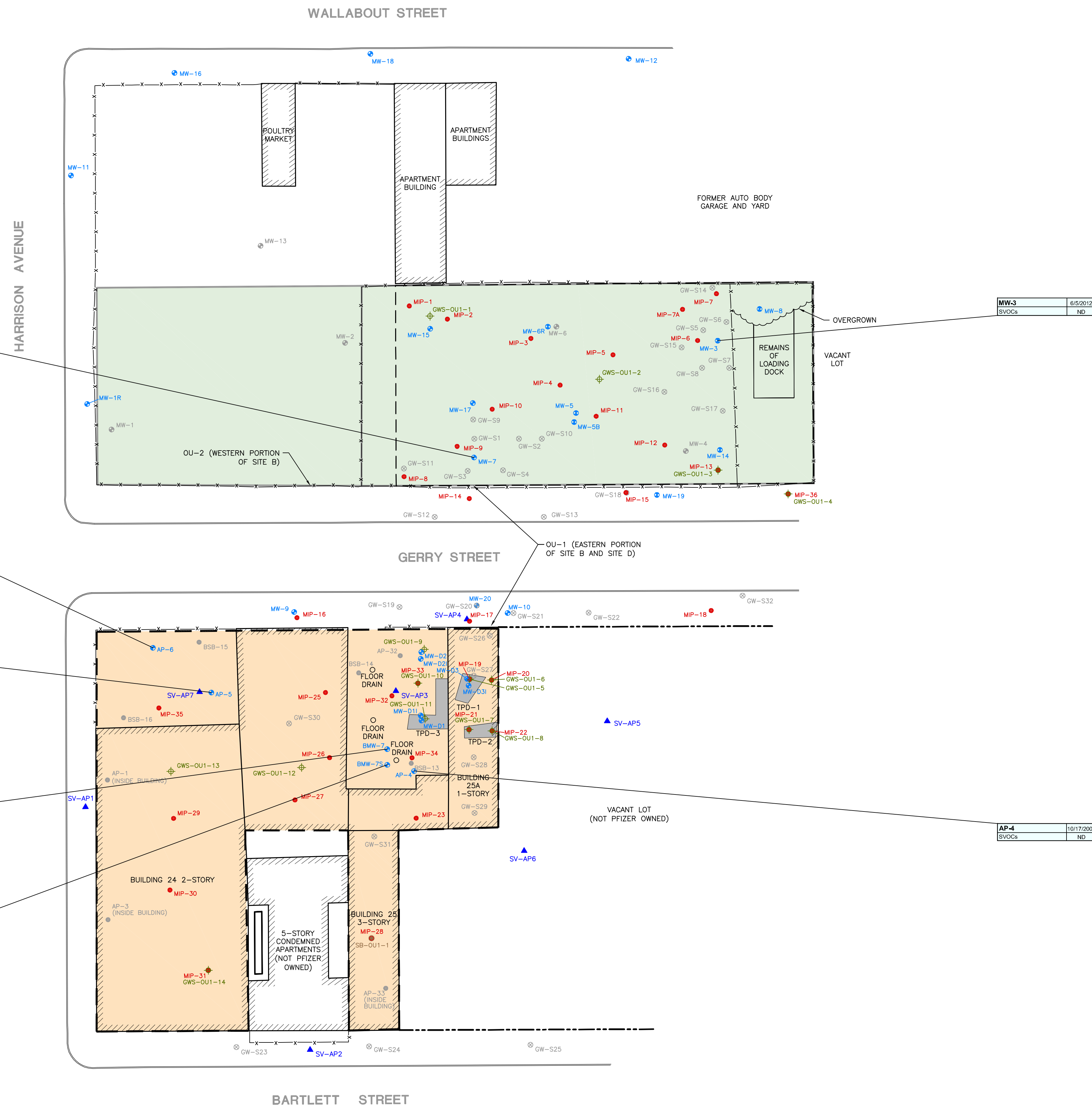
NYSDDEC - NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
AMWSGVs - AMBIENT WATER-QUALITY STANDARDS AND GUIDANCE VALUES
µg/L - MICROGRAMS PER LITER
J - ESTIMATED VALUE
U - COMPOUND WAS ANALYZED FOR BUT NOT DETECTED
V - VALUE ALTERED OR QUALIFIER ADDED DURING DATA VALIDATION
NE - NO EXCESSANCE
ND - THERE WERE NO DETECTIONS FOR ANY COMPOUND IN THE SELECTION
BOLD - CONCENTRATION EXCEEDS NYSDDEC AMWSGV

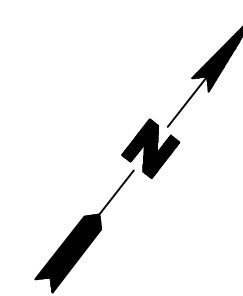


Title: **SVOCs DETECTED IN GROUNDWATER AT SITE B AND SITE D**

SITE B AND SITE D OU-1 RIR

Prepared For:		PFIZER INC BROOKLYN, NEW YORK	
ROUX ROUX ASSOCIATES, INC. Environmental Consulting & Management	Compiled by: E.L.	Date: 11DEC13	PLATE
	Prepared by: J.A.D.	Scale: AS SHOWN	
	Project Mgr: W.K.	Project: 0047.0044Y039	
	File: 0047.0044Y563R.04.DWG		





WALLABOUT STREET

HARRISON AVENUE

GERRY STREET

BARTLETT STREET

MW-7	6/5/2012	6/5/2012
Analyte	Filtered	Total
Arsenic	7.5 U	7.5 U
Barium	71	80
Beryllium	4 U	4 U
Chromium	50 U	50 U
Copper	50 U	50 U
Lead	4 U	4 U
Manganese	1200	1300
Mercury	0.7 U	0.7 U
Sodium	55000	56000
Cyanide, Free	NA	0.02 U
Total PCBs	NA	ND
Pesticides/Herbicides	NA	ND

AP-6	10/17/2007	6/5/2012	6/5/2012
Analyte	Total	Filtered	Total
Arsenic	7.5 U	7.5 U	7.5 U
Barium	97	150	160
Beryllium	4 U	4 U	4 U
Chromium	50 U	50 U	50 U
Copper	50 U	50 U	50 U
Lead	4 U	4 U	17
Manganese	160	40 U	140
Mercury	0.7 U	0.7 U	0.7 U
Sodium	66000	160000	160000
Cyanide, Free	ND	NA	0.02 U
Total PCBs	ND	NA	ND
Pesticides/Herbicides	NA	NA	ND

AP-5	10/17/2007	6/5/2012	6/5/2012
Analyte	Total	Filtered	Total
Arsenic	7.5 U	7.5 U	7.5 U
Barium	310	170	160
Beryllium	4 U	4 U	4 U
Chromium	50 U	50 U	50 U
Copper	50 U	50 U	50 U
Lead	4 U	4 U	4 U
Manganese	890	220 JV	170 JV
Mercury	0.7 U	0.7 U	0.7 U
Sodium	140000	51000	51000
Cyanide, Free	ND	NA	0.02 U
Total PCBs	ND	NA	ND
Pesticides/Herbicides	NA	NA	ND

BMW-7	11/29/2006	1/31/2007	2/13/2007	3/9/2007	6/4/2012	6/4/2012
Analyte	Total	Total	Total	Total	Filtered	Total
Arsenic	9.8	7.5 U	7.5 U	7.5 U	7.5 U	9.7
Barium	280	270	320	160	200	190
Beryllium	4 U	4 U	4 U	4 U	4 U	4 U
Chromium	50 U	50 U	50 U	50 U	50 U	50 U
Copper	62	50 U	50 U	50 U	50 U	50 U
Lead	28	20	4 U	4 U	4 U	4 U
Manganese	1400	1200	970	1400	700	620
Mercury	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
Sodium	55000	65000	83000	42000	57000	57000
Cyanide, Free	ND	ND	20	ND	NA	0.02 U
Total PCBs	NA	NA	NA	NA	NA	ND
Pesticides/Herbicides	NA	NA	NA	NA	NA	ND

BMW-7S	11/29/2006	1/31/2007	2/13/2007	3/9/2007	6/4/2012	6/4/2012
Analyte	Total	Total	Total	Total	Filtered	Total
Arsenic	9.8	7.5 U	7.5 U	7.5 U	7.5 U	9.7
Barium	130	1300	240	96	75	71
Beryllium	4 U	6.7	4 U	4 U	4 U	4 U
Chromium	50 U	400	50 U	50 U	50 U	50 U
Copper	50 U	630	87	50 U	50 U	50 U
Lead	4 U	1000	100	4 U	4 U	4 U
Manganese	690	6100	840	870	40 U	40 U
Mercury	0.7 U	7.5	6.83	0.7 U	0.7 U	0.7 U
Sodium	210000	200000	220000	200000	130000	140000
Cyanide, Free	ND	ND	ND	ND	NA	0.02 U
Total PCBs	NA	NA	NA	NA	NA	ND
Pesticides/Herbicides	NA	NA	NA	NA	NA	ND

AP-4	10/17/2007	6/1/2012	6/1/2012
Analyte	Total	Filtered	Total
Arsenic	7.5 U	7.5 U	7.5 U
Barium	310	50 U	50 U
Beryllium	4 U	4 U	4 U
Chromium	50 U	50 U	50 U
Copper	50 U	50 U	50 U
Lead	4 U	4 U	4 U
Manganese	4500	280	430
Mercury	0.7 U	0.7 U	0.7 U
Sodium	100000	63000	63000
Cyanide, Free	ND	NA	0.02 U
Total PCBs	ND	NA	ND
Pesticides/Herbicides	NA	NA	ND

MW-3	6/5/2012	6/5/2012
Analyte	Filtered	Total
Arsenic	7.5 U	7.5 U
Barium	50 U	50 U
Beryllium	4 U	4 U
Chromium	50 U	50 U
Copper	50 U	50 U
Lead	4 U	4 U
Manganese	2600	2800
Mercury	0.7 U	0.7 U
Sodium	40000	42000
Cyanide, Free	NA	0.02 U
Total PCBs	NA	ND
Pesticides/Herbicides	NA	ND

- LEGEND
- EXISTING BUILDINGS OR STRUCTURES
 - LOCATION AND DESIGNATION OF EXISTING MONITORING WELL
 - LOCATION AND DESIGNATION OF DESTROYED MONITORING WELL
 - LOCATION AND DESIGNATION OF MEMBRANE INTERFACE PROBE (MIP) SAMPLING POINT
 - LOCATION AND DESIGNATION OF SOIL VAPOR SAMPLING POINT
 - LOCATION AND DESIGNATION OF DISCRETE GROUNDWATER/SOIL SAMPLING POINT
 - LOCATION AND DESIGNATION OF SOIL BORING
 - LOCATION AND DESIGNATION OF PREVIOUS SOIL SAMPLING POINT
 - LOCATION AND DESIGNATION OF PREVIOUS DISCRETE GROUNDWATER/SOIL SAMPLING POINT
 - SITE D (FORMER ARLINGTON PRESS)
 - SITE B
 - LOCATION AND DESIGNATION OF TEST TRENCH
 - FORMER PFIZER PROPERTY LINE
 - FENCE

TYPICAL DATABASE INFORMATION

SAMPLE DESIGNATION	SAMPLING DATE
MW-3	6/5/2012
Analyte	Filtered
Arsenic	7.5 U
Barium	50 U
Beryllium	4 U
Chromium	50 U
Copper	50 U
Lead	4 U
Manganese	2600
Mercury	0.7 U
Sodium	40000
Cyanide, Free	NA
Total PCBs	NA
Pesticides/Herbicides	NA

Parameter	NYSDEC AWQSGVs (Concentrations in µg/L)
Arsenic	25
Barium	1000
Beryllium	3
Chromium	50
Copper	200
Lead	25
Manganese	300
Mercury	0.7
Sodium	20000
Cyanide, Free	200
Total PCBs	0.09

NYSDEC - NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
AWQSGVs - AMBIENT WATER-QUALITY STANDARDS AND GUIDANCE VALUES
µg/L - MICROGRAMS PER LITER
J - ESTIMATED VALUE
U - COMPOUND WAS ANALYZED FOR BUT NOT DETECTED
NA - COMPOUND WAS NOT ANALYZED BY LABORATORY
ND - THERE WERE NO DETECTIONS FOR ANY COMPOUND IN THE SELECTION
V - VALUE ALTERED OR QUALIFIER ADDED DURING DATA VALIDATION
BOLD - CONCENTRATION EXCEEDS NYSDEC AWQSGV

30' 0 30'

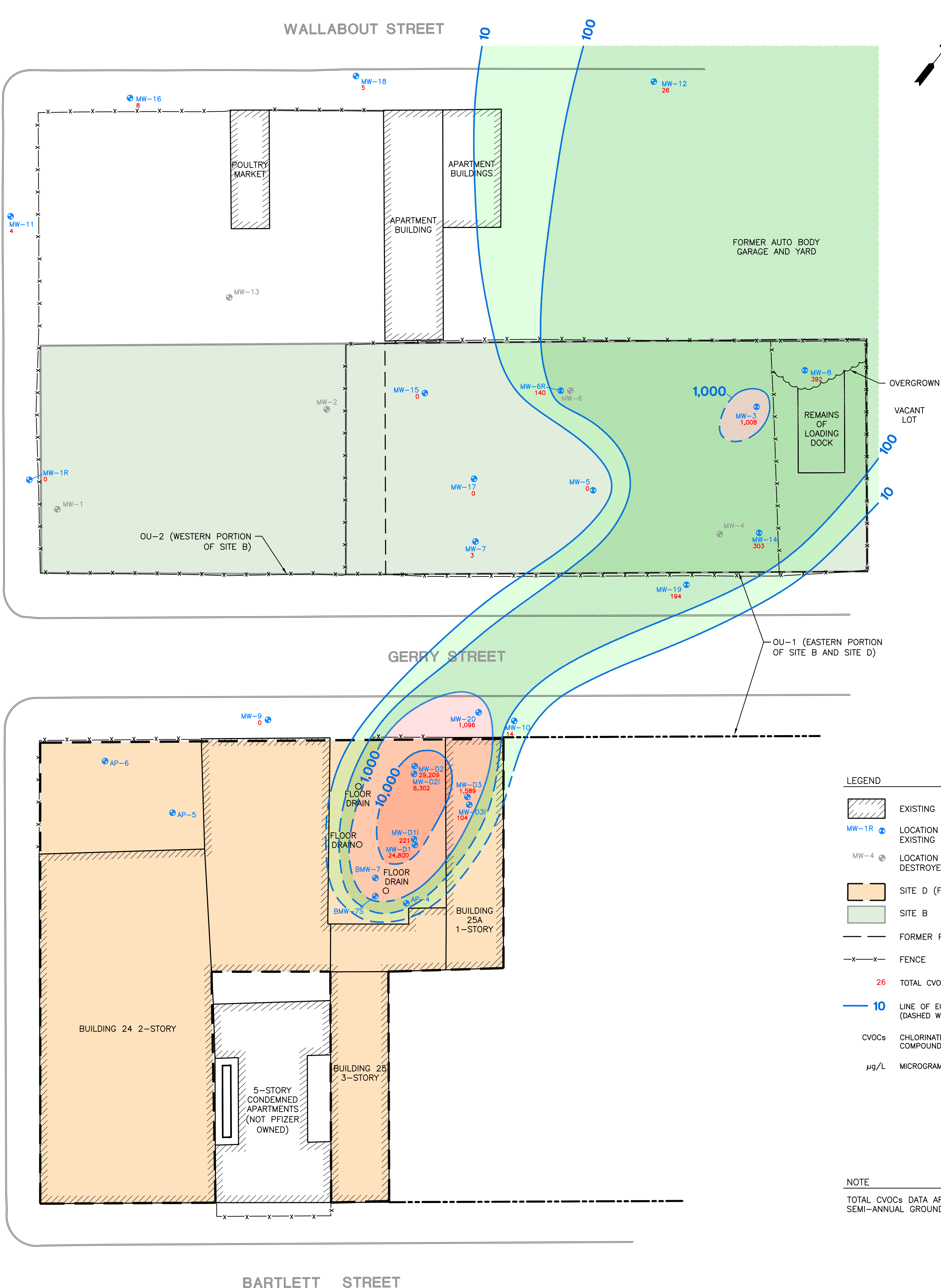
Title: METALS, CYANIDE, PCBs, PESTICIDES AND HERBICIDES DETECTED IN GROUNDWATER AT SITE B AND SITE D

SITE B AND SITE D OU-1 RIR

Prepared For: PFIZER INC
BROOKLYN, NEW YORK

Compiled by: E.L. Date: 11DEC13
Prepared by: J.A.D. Scale: AS SHOWN
Project Mgr: W.K. Project: 0047.0044Y039
File: 0047.0044Y563R.05.DWG

ROUX
ROUX ASSOCIATES, INC.
Environmental Consulting & Management



- LEGEND
- EXISTING BUILDINGS OR STRUCTURES
 - MW-1R LOCATION AND DESIGNATION OF EXISTING MONITORING WELL
 - MW-4 LOCATION AND DESIGNATION OF DESTROYED MONITORING WELL
 - SITE D (FORMER ARLINGTON PRESS)
 - SITE B
 - FORMER PFIZER PROPERTY LINE
 - FENCE
 - 26 TOTAL CVOCs IN µg/L
 - 10 LINE OF EQUAL CVOCs IN µg/L (DASHED WHERE INFERRED)
 - CVOCs CHLORINATED VOLATILE ORGANIC COMPOUNDS
 - µg/L MICROGRAMS PER LITER

NOTE

TOTAL CVOCs DATA ARE FROM SEPTEMBER 2013 SEMI-ANNUAL GROUNDWATER MONITORING EVENT.

Title:

GENERALIZED EXTENT OF CVOCs IN GROUNDWATER - SEPTEMBER 2013

SITE B AND SITE D OU-1 RIR

Prepared For:

Pfizer Inc
Brooklyn, New York

ROUX

ROUX ASSOCIATES, INC.

Environmental Consulting and Management

Compiled by: W.K.

Prepared by: J.A.D.

Project Mgr: W.K.

Date: 10DEC13

Scale: AS SHOWN

Project: 0047.0044Y039

File: 0047.0044Y563R.14.DWG

PLATE

10

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SV-AP7	7/17/13
Analyte	
1,1,1-Trichloroethane	16
2-Butanone (MEK)	12
Acetone	230
Carbon disulfide	6.4
Tetrachloroethene	360
Toluene	5.7
Trichloroethene	13
Xylenes (total)	4.2

SV-AP1	10/5/12	7/17/13
Analyte		
1,1,1-Trichloroethane	65	46
1,2,4-Trimethylbenzene	0.98 U	7.7
1,2-Dichloroethane	0.81 U	1.5
1,3,5-Trimethylbenzene	0.98 U	2.3
2-Butanone (MEK)	1.5 U	3.7
4-Ethyltoluene	0.98 U	1.5
Acetone	12 U	73
Benzene	0.64 U	1.1
Chloroform	1.9	1.2
Ethylbenzene	0.87 U	2.1
m,p-Xylene	2.2 U	8.5
s-Xylene	0.87 U	3.6
Styrene	0.85 U	1.7
Tetrachloroethene	110	76
Toluene	1.3	17
Trichlorofluoromethane	1.8	2.3
Xylenes (total)	1.1	12

SV-AP8	7/17/13
Analyte	
2-Butanone (MEK)	8.5
Acetone	270
Carbon disulfide	61
Chloroform	13
Tetrachloroethene	31
Toluene	4.3

SV-4	4/5/07
Analyte	
1,1-Dichloroethane	2.3 JV
1,1,1-Trichloroethane	7.1 JV
2-Butanone (MEK)	7.1 JV
Acetone	110 JV
Benzene	2.2 JV
Chloroform	63 JV
Cyclohexane	2.5 JV
n-Heptane	1.7 JV
Tetrachloroethene	5.8 JV
Toluene	9.4 JV
Trichloroethene	4.9 JV
Xylenes (total)	7.8 JV

SV-AP10	7/17/13
Analyte	
1,1,1-Trichloroethane	30
2-Butanone (MEK)	18
Acetone	650
Carbon disulfide	41
Chloroform	10

SV-AP9	7/17/13
Analyte	
1,1,1,1-Tetrachloroethane	26
2-Butanone (MEK)	10
Acetone	320
Carbon disulfide	33
Chloroform	450
Toluene	5.7
Trichloroethene	7
Xylenes (total)	5.4

SV-5	4/5/07
Analyte	
1,2,4-Trimethylbenzene	2.8
2-Butanone (MEK)	5.8
4-Ethyltoluene	2.5
Acetone	50
Benzene	6.77
Chloroform	4.7
Ethylbenzene	2.5
Dichlorodifluoromethane	2.5
Ethylbenzene	5.3
n-Heptane	2.2
Tetrachloroethene	3.1
Toluene	12
Trichlorofluoromethane	1.2
Xylenes (total)	12

SV-1	4/5/07
Analyte	
1,1-Dichloroethane	3.1
1,1,1-Trichloroethane	9.3
1,2,4-Trimethylbenzene	2.4
2-Butanone (MEK)	1.8
1,2,4-Trimethylpentane	1.5
4-Ethyltoluene	2.5
Benzene	3.2
Carbon Disulfide	4.4
Carbon Tetrachloride	2.9
Chloroform	2.9
Cyclohexane	2.9
Dichlorodifluoromethane	2.8
Ethylbenzene	3.9
n-Heptane	5.3
n-Hexane	11
Styrene	1.2
Tetrachloroethene	1.4
Toluene	31
Trichlorofluoromethane	1.2
Xylenes (total)	21

SV-2	4/5/07
Analyte	
1,1-Dichloroethane	5.3 JV
1,1,1-Trichloroethane	4.9 JV
2-Butanone (MEK)	3.0 JV
1,3,5-Trimethylbenzene	1.1 UJV
4-Ethyltoluene	34 JV
2-Butanone (MEK)	9.7 JV
4-Ethyltoluene	95 JV
Acetone	2.9 JV
Carbon Disulfide	2.3 JV
Chloroform	6.3 JV
Cyclohexane	1.3 JV
Dichlorodifluoromethane	2.6 JV
Ethylbenzene	2.3 NJV
Isobutyl Ketone	2.4 JV
n-Heptane	2.5 JV
n-Hexane	2.6 JV
Tetrachloroethene	14 JV
Trichlorofluoromethane	1.2 JV
Xylenes (total)	12 NJV

SV-3	4/5/07
Analyte	
1,2,4-Trimethylbenzene	1.4 JV
2-Butanone (MEK)	4.4 JV
1,2,4-Trimethylpentane	1.1 JV
n-Heptane	0.34 JV
n-Hexane	3.3 JV
Toluene	7.2 JV
Xylenes (total)	5.2 JV

SV-4	4/5/07
Analyte	
2-Butanone (MEK)	2.4 JV
Acetone	20 JV
Benzene	2.8 JV
Ethylbenzene	1.1 JV
n-Heptane	1.5 JV
n-Hexane	3.3 JV
Toluene	7.2 JV
Xylenes (total)	5.2 JV

SV-P1	2/23/12
Analyte	
2,2,4-Trimethylpentane	1
Acetone	26
Benzene	0.97
Bromochloromethane	2.7
Carbon disulfide	5.3
Carbon tetrachloride	1.7
Chloroform	51
cis-1,2-Dichloroethene	2.5
Cyclohexane	43
Dichlorodifluoromethane	2.7
Ethylbenzene	4.9
n-Heptane	1.7
n-Hexane	31
Styrene	140
Tetrachloroethene	5.1
Toluene	6.2
Trichloroethene	1.3
Trichlorofluoromethane	1.4
Xylenes (total)	28

SV-P2	2/23/12
Analyte	
1,1,1-Trichloroethane	3.5
Acetone	98
Carbon tetrachloride	18
Chloroform	26
Cyclohexane	40
Dichlorodifluoromethane	2.7
Ethylbenzene	3.5
Styrene	10
Tetrachloroethene	19
Toluene	3.6
Trichlorofluoromethane	1.3
Xylenes (total)	22.4

SV-AP4	10/5/12
Analyte	
1,2-Dichloroethene (total)	1500
cis-1,2-Dichloroethene	1400
Tetrachloroethene	76000
Trichloroethene	6100

SV-AP3	10/5/12	7/17/13
Analyte		
1,2-Dichloroethene (total)	1600	1600
cis-1,2-Dichloroethene	1500	1400
Tetrachloroethene	37000	23000
trans-1,2-Dichloroethene	260 U	120
Trichloroethene	4700	4900

SV-AP5	3/5/13
Analyte	
1,2,4-Trimethylbenzene	3.3
1,3-Butadiene	0.83
2-Butanone (MEK)	2.1
4-Ethyltoluene	0.97
Acetone	13
Benzene	3
Carbon disulfide	4.8
Chloroform	1.2
Cyclohexane	1.2
Dichlorodifluoromethane	2.9
Ethylbenzene	5.3
m,p-Xylene	25
n-Heptane	2.4
n-Hexane	3.3
o-Xylene	7.8
Styrene	1.7
Tetrachloroethene	16
Toluene	7.3
Trichlorofluoromethane	3.4
Xylenes (total)	33

SV-AP6	3/5/13
Analyte	
1,3-Butadiene	25
Benzene	6.2
Carbon disulfide	6.1
Cyclohexane	3.4
Ethylbenzene	4.1
m,p-Xylene	19
n-Heptane	5.1
n-Hexane	17
o-Xylene	5.5
Tetrachloroethene	430
Toluene	7.5
Trichloroethene	28
Xylenes (total)	25

SV-AP2	10/5/12
Analyte	
1,2,4-Trimethylbenzene	2.6
4-Methyl-2-pentanone (MBK)	2.1
Acetone	12
Benzene	6.1
Chloroform	7.6
Cyclohexane	2.5
Ethylbenzene	0.05
m,p-Xylene	3.2
o-Xylene	1.3
Tetrachloroethene	38
Toluene	4.3
Trichloroethene	2.5
Trichlorofluoromethane	1.3

LEGEND

- EXISTING BUILDINGS OR STRUCTURES
- LOCATION AND DESIGNATION OF EXISTING MONITORING WELL
- LOCATION AND DESIGNATION OF DESTROYED MONITORING WELL
- LOCATION AND DESIGNATION OF MEMBRANE INTERFACE PROBE (MIP) SAMPLING POINT
- LOCATION AND DESIGNATION OF SOIL VAPOR SAMPLING POINT
- LOCATION AND DESIGNATION OF SITE B SOIL VAPOR SAMPLING POINT
- LOCATION AND DESIGNATION OF 2007 SUBSLAB SOIL VAPOR SAMPLING POINT
- LOCATION AND DESIGNATION OF DISCRETE GROUNDWATER/SOIL SAMPLING POINT
- LOCATION AND DESIGNATION OF SOIL BORING
- LOCATION AND DESIGNATION OF PREVIOUS SOIL SAMPLING POINT
- LOCATION AND DESIGNATION OF PREVIOUS DISCRETE GROUNDWATER/SOIL SAMPLING POINT
- SITE D (FORMER ARLINGTON PRESS)
- SITE B
- LOCATION AND DESIGNATION OF TEST TRENCH
- FORMER PFIZER PROPERTY LINE
- FENCE
- APPROXIMATE EXTENT OF FORMER BUILDING CONCRETE SLAB
- FORMER BUILDING STRUCTURES AT 1849/1869 LOT

TYPICAL DATABOX INFORMATION

SAMPLE DESIGNATION		SAMPLING DATE	
SV-AP4	10/5/12		
Analyte			
1,2-Dichloroethene (total)	1500		
cis-1,2-Dichloroethene	1400		
Tetrachloroethene	76000		
Trichloroethene	6100		

- U - INDICATES THAT THE COMPOUND WAS ANALYZED FOR BUT NOT DETECTED
- J - ESTIMATED VALUE
- V - VALUE ALTERED OR QUALIFIER ADDED DURING DATA VALIDATION
- NJ - DETECTION IS TENTATIVE IN IDENTIFICATION AND ESTIMATED IN VALUE
- UJ - ANALYTE WAS NOT DETECTED. ASSOCIATED REPORTED QUANTITATION LIMIT IS AN ESTIMATE

NOTE

SITE B SOIL VAPOR AND 2007 SUBSLAB SOIL VAPOR DATA WERE NOT PART OF REMEDIAL INVESTIGATION; PROVIDED FOR INFORMATIONAL PURPOSES ONLY.

30' 0 30'

Title:

VOCs DETECTED IN SOIL VAPOR

SITE B AND SITE D OU-1 RIR

Prepared For:

PFIZER INC
BROOKLYN, NEW YORK

ROUX

ROUX ASSOCIATES, INC.

Environmental Consulting & Management

Compiled by: E.L.
Project Mgr: W.K.

Date: 19DEC13
Scale: AS SHOWN
Project: 0047.0044Y563R.11.DWG

PLATE
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